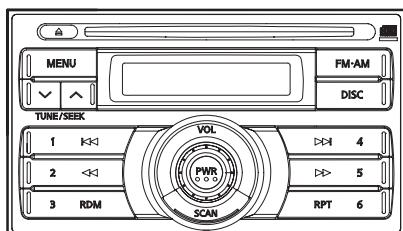
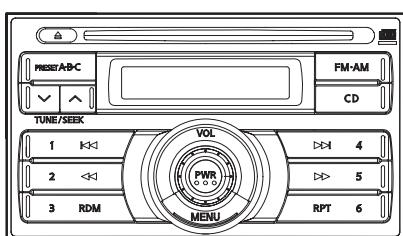


# Service Manual


 PN-2871F-A, B, PN-2871L-B, C, E, F, PN-2871R-A  
 PP-2871H-A, B, C, PP-2871N-A, B  
 PP-2871T-A, B, C, D, E, F


PN-2871L-A, G

**NISSAN Automobile Genuine  
AM/FM Radio CD Combination**

**Model PN-2871F-A,B**

**Model PN-2871L-A,B,C,E,F,G**

**Model PN-2871R-A**

**Model PP-2871H-A,B,C**

**Model PP-2871N-A,B**

**Model PP-2871T-A,B,C,D,E,F**

## DIFFERENCES

Model	Genuine No.	ID No.	Destination
PN-2871F-A	28185 JD10A	CY17D	Middle East
PN-2871F-B	28185 JE21A	CY23D	Middle East
PN-2871L-A	28185 EM31A	CY40D	North America
PN-2871L-B	28185 EL00A	CY40D	Latin America
PN-2871L-C	28185 EE51A	CY42D	Middle East
PN-2871L-E	28185 EF81A	CY44D	Middle East
PN-2871L-F	28185 EE91A	CY43D	Middle East
PN-2871L-G	28185 EM32A	CY04E	North America
PN-2871R-A	28185 EW80A	CY45D	Middle East
PP-2871H-A	28185 EB700	CY10C	Middle East
PP-2871H-B	28185 VM00G	CY55D	Latin America
PP-2871H-C	28185 VM00C	CY55D	Latin America
PP-2871N-A	28185 CJ90A	CY24C	Middle East
PP-2871N-B	28185 CJ40A	CY21D	Middle East
PP-2871T-A	28185 JH40A	CY22D	Middle East
PP-2871T-B	28185 JH40A	CY22D	Middle East
PP-2871T-C	28185 JH40A	CY22D	Middle East
PP-2871T-D	28185 JH40B	CY22D	Middle East
PP-2871T-E	28185 JH40B	CY22D	Middle East
PP-2871T-F	28185 JH40B	CY22D	Middle East

Model	Illumination color	Illumi control	TEL line in	ANT	Remote control
PN-2871F-A	Reddish orange	x	x	Glass	x
PN-2871F-B	Reddish orange	x	o	Glass	o
PN-2871L-A	Yellow orange	o	x	Glass	x
PN-2871L-B	Yellow orange	x	x	Glass	x
PN-2871L-C	Yellow orange	x	x	Glass	x
PN-2871L-E	Yellow orange	x	x	Glass	x
PN-2871L-F	Yellow orange	x	x	Glass	x
PN-2871L-G	Yellow orange	o	x	Glass	x
PN-2871R-A	Yellow orange	x	o	Glass	o
PP-2871H-A	Yellow orange	x	x	Pole	x
PP-2871H-B	Reddish orange	x	x	Pole	x
PP-2871H-C	Reddish orange	x	x	Pole	x
PP-2871N-A	Yellow orange	x	x	Pole	x
PP-2871N-B	Yellow orange	x	x	Pole	x
PP-2871T-A	Reddish orange	x	x	Glass	x
PP-2871T-B	Reddish orange	x	x	Glass	x
PP-2871T-C	Reddish orange	x	x	Glass	x
PP-2871T-D	Reddish orange	x	x	Glass	x
PP-2871T-E	Reddish orange	x	x	Glass	x
PP-2871T-F	Reddish orange	x	x	Glass	x

## SPECIFICATIONS

### Radio section

Tuning system: PLL Frequency synthesizer system

Receive range:

PN-2871F / PN-2871L-C,E,F / PN-2871R

PP-2871H-A / PP-2871N / PP-2871T

AM 531kHz to 1602kHz  
9kHz step

FM 87.5MHz to 107.9MHz  
50kHz step

PN-2871L-B / PP-2871H-B,C

AM 530kHz to 1620kHz  
10kHz step  
FM 87.5MHz to 107.9MHz  
50kHz step

PN-2871L-A,L-G

AM 530kHz to 1710kHz  
10kHz step  
FM 87.7MHz to 107.9MHz  
200kHz step

Intermediate frequency: AM 450 +3/-3kHz

FM 10.7 +0.03/-0.03MHz

Quieting sensitivity:

PN-2871F / PN-2871L / PN-2871R

PP-2871T

AM Less than 38dBu  
(at 20dB S/N)  
FM Less than 15dBu  
(at 30dB S/N)

PP-2871H / PP-2871N

AM Less than 32dBu  
(at 20dB S/N)  
FM Less than 10dBu  
(at 30dB S/N)

Separation:

FM More than 22+5/-7dB(1kHz)

S/N ratio:

AM More than 45dB  
FM More than 50dB

Auto tuning stop sensitivity:

PN-2871F / PN-2871L / PN-2871R

PP-2871T

AM 42+6/-6dBu  
(603kHz : 9kHz step)  
(600kHz : 10kHz step)  
39+6/-6dBu  
(999/1404kHz : 9kHz step)  
(1000/1400kHz : 10kHz step)  
FM 32+6/-6dBu  
(87.9/98.1/107.9MHz)

PP-2871H / PP-2871N

AM 32+6/-6dBu  
(603/999/1404kHz:9kHz step)  
(600/1000/1400kHz:10kHz  
step)  
FM 25+6/-6dBu  
(87.9/98.1/107.9MHz)

### CD section

Disc: 12cm disc

Separation: More than 50dB

S/N ratio: More than 74dB(JIS-A)

Distortion: Less than 0.4%

### General

Load impedance: 4ohm/CH

Power output: More than 30Wx4

Power supply voltage: DC13.2V(10.8 to 15.6V)

Negative ground

Back-up consumption: Less than 1.0mA

Dimensions(mm): 182(W)x104(H)x164(D)

Weight: 1.5kg

## NOTES

- \* Use only compact discs bearing the  mark. Do not play heart-shaped, octagonal, or other specially shaped compact discs.
- \* We cannot supply PWB with component parts in principle. When a circuit on PWB has failure, please repair it by component parts base. Parts which are not mentioned in service manual are not supplied.
- \* Specifications and design are subject to change without notice for further improvement.

## COMPONENT

1. Main unit

-----

1

## To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

### 1. Use specified parts.

The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.

The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.

### 2. Place the parts and wiring back in their original positions after replacement or re-wiring.

For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.

If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.

### 3. Check for safety after repair.

Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary problems around the repaired spots.

If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

### 4. Caution in removal and making wiring connection to the parts for the automobile.

Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

### 5. Cautions in soldering

Please do not spread liquid flux in soldering.

Please do not wash the soldering point after soldering.

### 6. Cautions in soldering for chip capacitors

Please solder the chip capacitors after pre-heating for replacement because they are very weak to heat.

Please do not heat the chip capacitors with a soldering iron directly.

### 7. Cautions in handling for chip parts.

Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc).

Please make an operation test after replacement.

### 8. Cautions in handling flexible PWB

Before working with a soldering iron, make sure that the iron tip temperature is around 270°C. Take care not to apply the iron tip repeatedly(more than three times)to the same patterns. Also take care not to apply the tip with force.

### 9. Turn the unit OFF during disassembly and parts replacement.

Recheck all work before you apply power to the unit.

### 10. Cautions in checking that the optical pickup lights up.

The laser is focused on the disc reflection surface through the lens of the optical pickup. When checking that the laser optical diode lights up, keep your eyes more than 30cms away from the lens. Prolonged viewing of the laser within 30cms may damage your eyesight.

### 11. Cautions in handling the optical pickup

The laser diode of the optical pickup can be damaged by electrostatic charge caused by your clothes and body. Make sure to avoid electrostatic charges on your clothes or body, or discharge static electricity before handling the optical pickup.

#### 11-1. Laser diode

The laser diode terminals are shorted for transportation in order to prevent electrostatic damage. After replacement, open the shorted circuit. When removing the pickup from the mechanism, short the terminals by soldering them to prevent this damage.

#### 11-2. Actuator

The actuator has a powerful magnetic circuit. If a magnetic material is put close to it. Its characteristics will change. Ensure that no foreign substances enter through the ventilation slots in the cover.

#### 11-3. Cleaning the lens

Dust on the optical lens affects performance.

To clean the lens, apply a small amount of isopropyl alcohol to lens paper and wipe the lens gently.

## ADJUSTMENTS

Item	Procedure	Measuring instrument
Noise convergence	1. Input the 98.1MHz/55dBu(1kHz 30% MOD) signal. 2. Set the output to 0.5W(=0dB) by main volume. 3. Adjust the output to -18+3/-3dB by VR102 when the SG output is set to -20dBu. (PP-2871H-A / PP-2871N) Adjust the output to -22+3/-3dB by VR102 when the SG output is set to -20dBu. (PN-2871F / PN-2871L-B, C, E, F / PN-2871R / PP-2871H-B, C / PP-2871T)	SSG Milli-volt meter
Clock	1. Push [MENU], [M1], [M5] and [POWER] buttons at the same time with B/U and ACC-ON. 2. Connect a universal timer to TP218(BEEP), and adjust TC201 so that a reading of the meter is 0+0.2/-0 seconds per day.	Universal timer

## EXPLANATION OF IC

052-1187-00 LC723663-9D34-E System Controller  
052-1187-20 LC723663-9D49-E System Controller

[ NOTE ] There is no compatibility in 052-1187-00 and 052-1187-20.

### Terminal Description

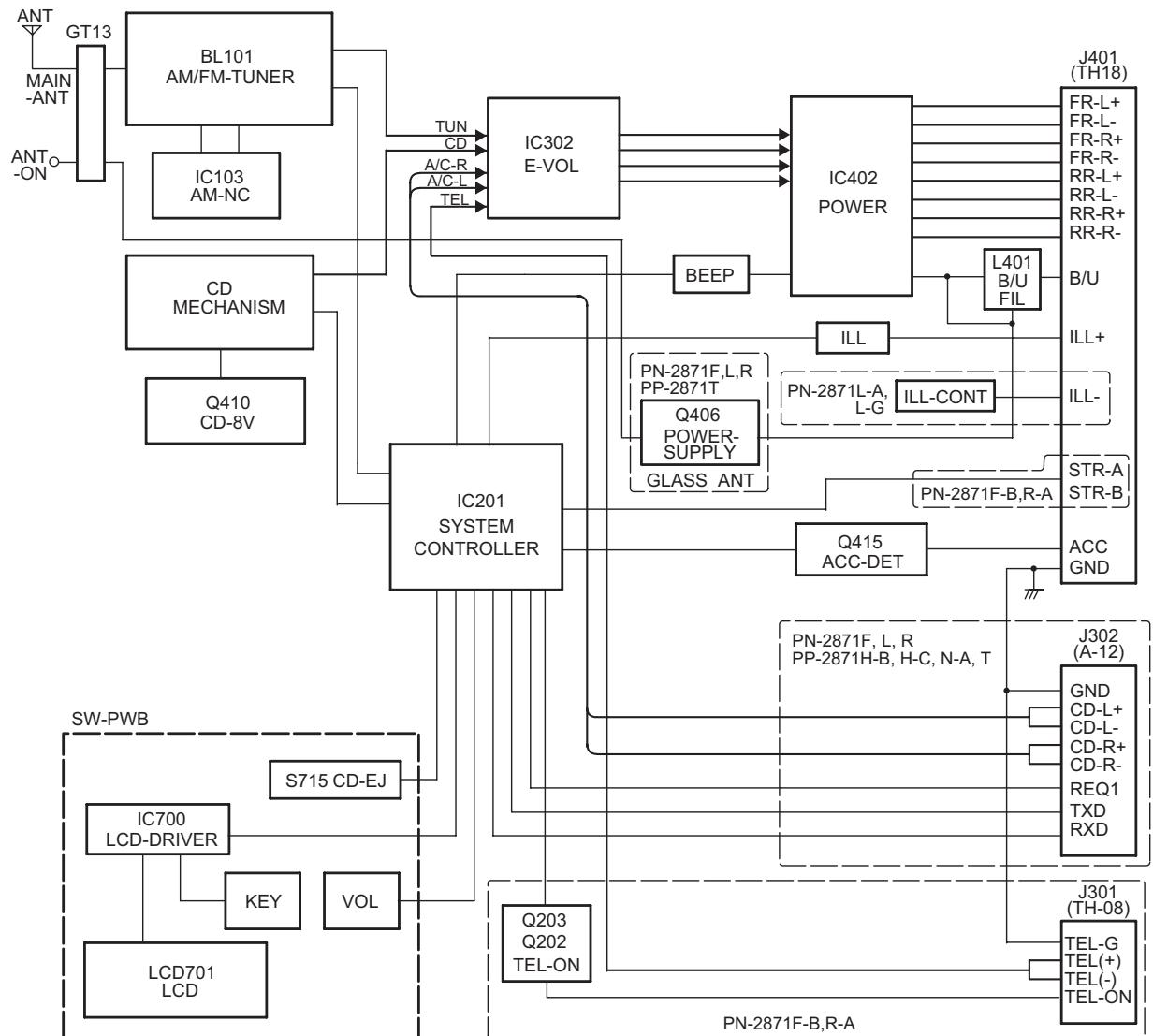
pin 1: X in :IN: Crystal connection.  
 pin 2: TEST 2 :IN: For the test.  
 pin 3: VREG :O: The capacitor connection for the internal power supply.  
 pin 4: VSS : - : Negative voltage supply.  
 pin 5: MAIN FIX :O: Main antenna fix signal output.  
 pin 6: VOL DATA :O: Serial data output to the volume IC.  
 pin 7: VOL CK :O: Clock pulse output to the volume IC.  
 pin 8: RF MUTE :O: Radio frequency signal muting.  
 pin 9: LCD DI :IN: Serial data input from the LCD driver.  
 pin 10: LCD DO :O: Serial data output to the LCD controller.  
 pin 11: LCD CLK :O: The clock pulse output to the LCD driver.  
 pin 12: VOL CE :O: Chip enable signal output to the volume IC.  
 pin 13: DX/LO :O: DX/Local select signal output.  
 pin 14: ST/TWEET :I/O: At AM station receiving, this port outputs L by AM 900kHz receiving.  
     At FM station receiving, this port detects the stereo signal.  
 pin 15: RADIO ON :O: Radio ON signal output.  
 pin 16: NU :O: Not in use.  
 pin 17: TEL ON :IN: Telephone ON signal input.  
 pin 18: NU :O: Not in use.  
 pin 19: AMP ON :O: Audio power amplifier ON signal output.  
 pin 20: ILL ON :IN: Illumination ON signal input.  
 pin 21: SYS ON :O: System ON signal output.  
 pin 22: AREA SEL 1 :IN: Destination setting input. Refer Table 1.  
 pin 23: AREA SEL 2 :IN: Destination setting input. Refer Table 1.  
 pin 24: REMO SEL :IN: Remote controller setting.  
     for vehicles  
 pin 25: FUNC SEL :IN: For North America  
     H = 2ohm  
     L = 4ohm  
     For Other area,  
     H = Single action eject  
     L = Double action eject  
 pin 26: AM NC SEL :IN: H = without AM noise canceller.  
 pin 27: CD CONNECT :IN: CD connect in signal in.  
 pin 28: BUS 0 :I/O: CD IC Data input / output.  
 pin 29: BUS 1 :I/O: CD IC Data input / output.  
 pin 30: BUS 2 :I/O: CD IC Data input / output.  
 pin 31: VDD : - : Positive voltage supply.  
 pin 32: VSS : - : Negative voltage supply.  
 pin 33: BUS 3 :I/O: CD IC Data input / output.  
 pin 34: BUS CLOCK :O: CD IC clock pulse output.  
 pin 35: CD CE (CCE) :O: CD IC chip enable signal output.  
 pin 36: CD RESET :O: CD IC reset pulse output.  
 pin 37: SBSY :IN: Sub code block synchronous signal detection input.  
 pin 38: S STOP :IN: Inside limit signal input from the CD mechanism.  
 pin 39: CHU SW :IN: CD disc chucking signal input.  
 pin 40: TR B :IN: Photo sensor signal input from the CD mechanism.  
 pin 41: TR A :IN: Photo sensor signal input from the CD mechanism.  
 pin 42: LD CONT :O: Loading signal output.  
 pin 43: LD MUTE :O: Muting signal output to the CD mechanism.

pin 44: CD ON	: O : CD ON signal output.
pin 45: LCD ON	: O : LCD back light ON signal output.
pin 46: CLOCK SEL	:IN: Clock selection command input. H = with the clock.
pin 47: ACC DET	:IN: ACC detection signal input.
pin 48: BEEP	: O : Beep out.
pin 49: AF MUTE	: O : Audio frequency signal muting out.
pin 50: NDS TX	: O : NDS serial data output to NDS-A/C.
pin 51: NU	: O : Not in use.
pin 52: NDS REQ	:IN: The request pulse from NDS.
pin 53: LCD CE	: O : Chip enable signal output to the LCD driver.
pin 54: POWER SW	:IN: Power switch ON signal input.
pin 55: VOL 1	:IN: Volume control pulse input from the rotary encoder.
pin 56: VOL 2	:IN: Volume control pulse input from the rotary encoder.
pin 57: CD EJECT	:IN: CD eject signal input.
pin 58: NDS RX	:IN: NDS serial data input from NDS-A/C.
pin 59: AM ON	: O : AM ON signal output.
pin 60: FM ON	: O : FM ON signal output.
pin 61: REMO A	:IN: Steering wheel remote controller signal input.
pin 62: REMO B	:IN: Steering wheel remote controller signal input.
pin 63: NU	:IN: Not in use.
pin 64: NU	:IN: Not in use.
pin 65: VSS	: - : Negative voltage supply.
pin 66: NU	:IN: Not in use.
pin 67: NU	:IN: Not in use.
pin 68: RESET	:IN: Reset signal input.
pin 69: ACC IN	:IN: ACC ON flag input.
pin 70: SNS	:IN: Backup voltage fail down detection.
pin 71: AM IF IN	:IN: Input terminal of the AM IF Counter.
pin 72: FM IF IN	:IN: Input terminal of the FM IF Counter.
pin 73: VDD	: - : Positive voltage supply.
pin 74: AM OSC IN	:IN: Input terminal of the internal counter for AM OSC ( Local Oscillation ).
pin 75: FM OSC IN	:IN: Input terminal of the internal counter for FM OSC ( Local Oscillation ).
pin 76: VSS	: - : Negative voltage supply.
pin 77: NU	: - : Not in use.
pin 78: EO	: O : Error out terminal.
pin 79: TEST 1	:IN: For the test.
pin 80: X out	: O : Crystal connection.

Table 1. Destination setting input

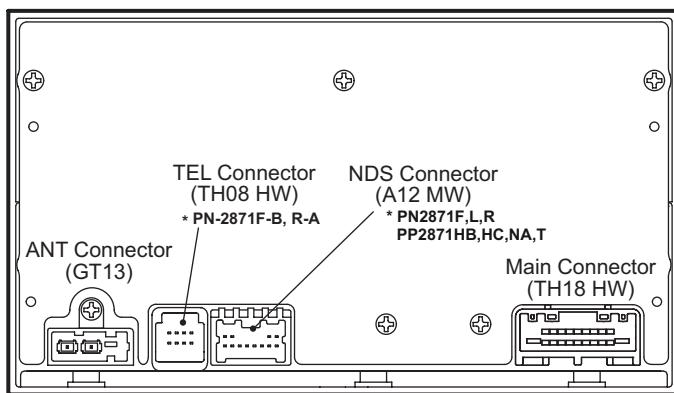
	M-EAST	DOM	NAM	LAM
AREA SEL 1 ( pin 22 )	L	H	L	H
AREA SEL 2 ( pin 23 )	L	L	H	H

## BLOCK DIAGRAM

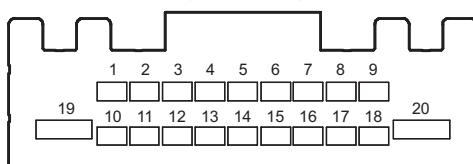


# CONNECTOR LAYOUT

## Rear view of the unit

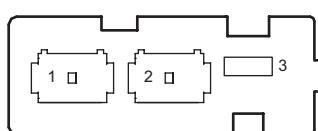


## Main Connector(TH18 HW)

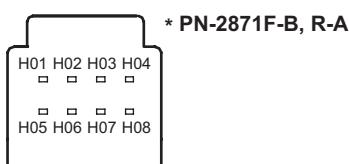


1	N.C.	11	FRONT-R(+)
2	FRONT-L(+)	12	FRONT-R(-)
3	FRONT-L(-)	13	REAR-R(+)
4	REAR-L(+)	14	REAR-R(-)
5	REAR-L(-)	15	STRG-GND
6	STRG SW A (PN-2871F-B,R-A)	16	STRG SW B (PN-2871F-B,R-A)
7	ACC	17	N.C.
8	ILLUMI CONTROL (PN-2871L-A,L-G)	18	N.C.
9	ILLUMI(+)	19	BACK UP
10	N.C.	20	GND

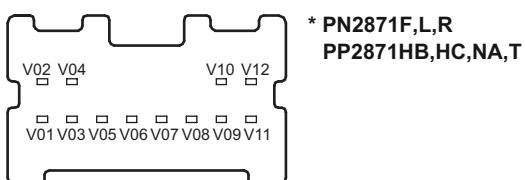
## ANT Connector(GT13)



## TEL Connector(TH08 HW)



## NDS Connector(A12 MW)



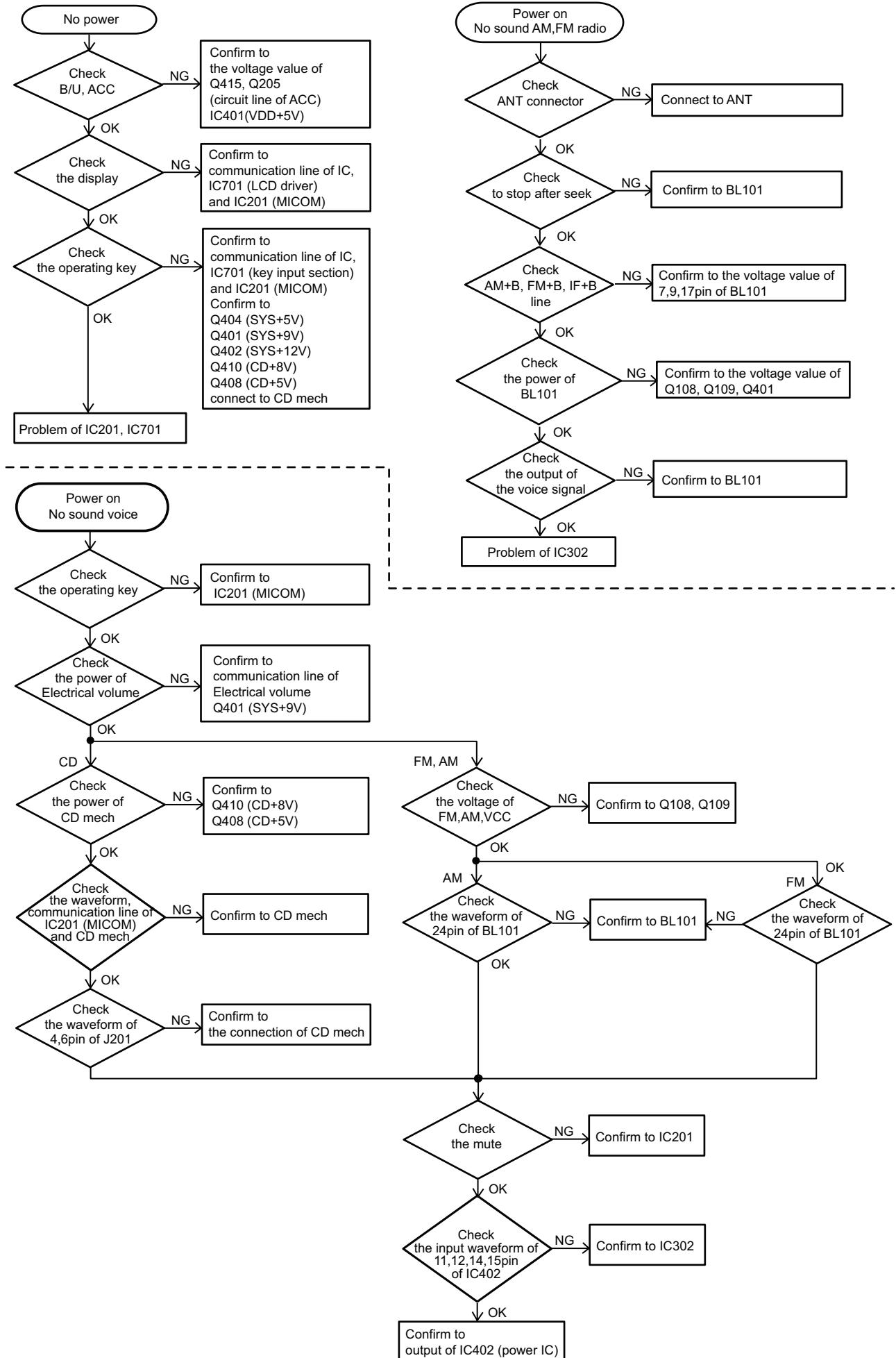
\* PN2871F,L,R  
PP2871HB,HC,NA,T

1	N.C.
2	MAIN ANT
3	ANT+B

H01	N.C.	H05	TEL-ON
H02	N.C.	H06	TEL-IN(-)
H03	GND	H07	TEL-IN(+)
H04	N.C.	H08	TEL SHIELD-GND

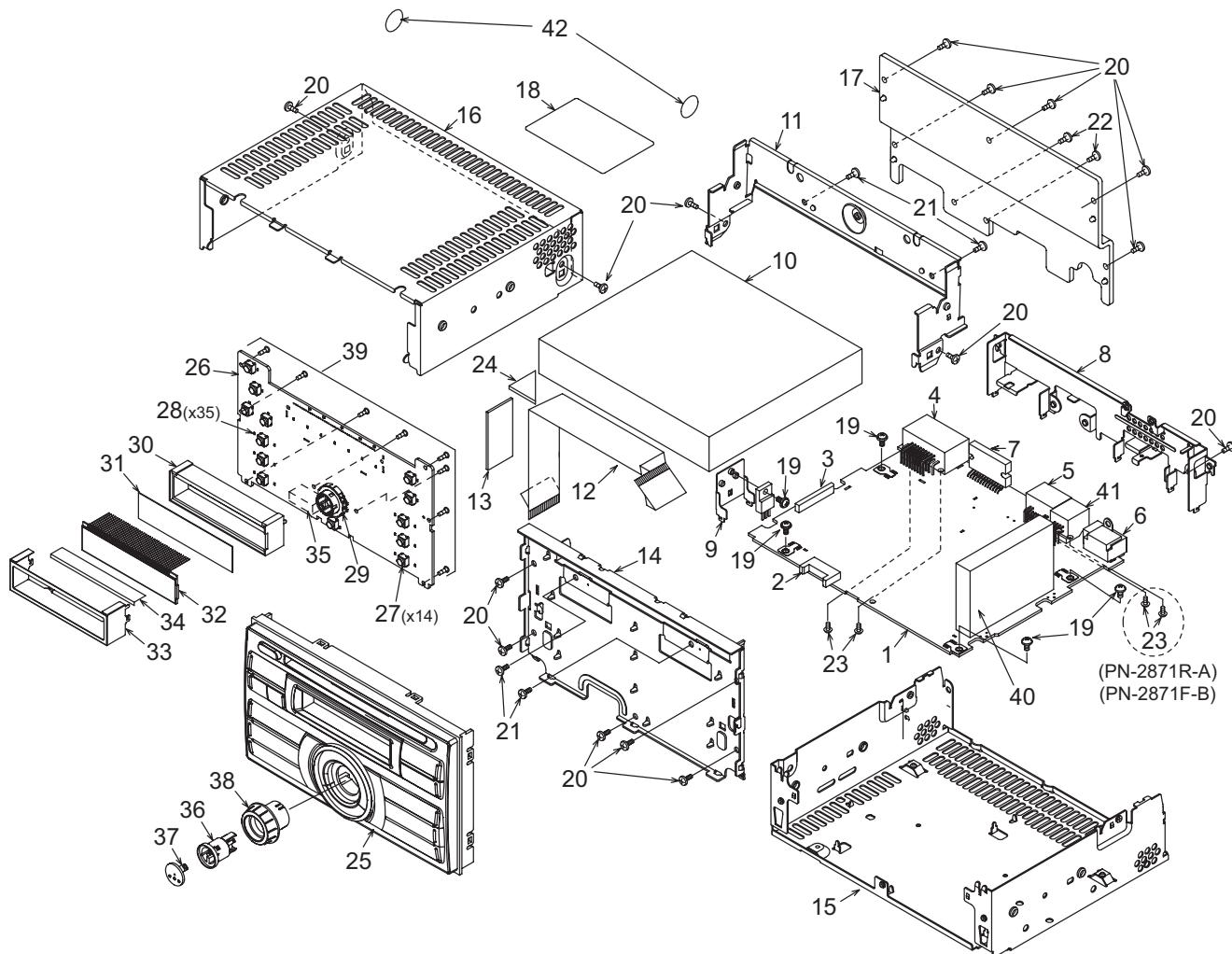
V01	CD-L(-)	V07	N.C.
V02	CD-L(+)	V08	SLAVE-REQ
V03	CD-R(-)	V09	CD-COMB(RXD)
V04	CD-R(+)	V10	COMB-CD(TXD)
V05	GND	V11	N.C.
V06	SHIELD-GND	V12	N.C.

# TROUBLESHOOTING



# EXPLODED VIEW/PARTS LIST

Main section



Note) Some parts depend on each model. The model name is specified in the description.

NO.	PART NO.	DESCRIPTION	Q'TY
1	-----	MAIN PWB	1
2	076-3011-64	PLUG (14P)	1
3	074-2003-76	SOCKET (26P)	1
4	074-4009-20	SOCKET (20P)	1
5	074-1013-00	SOCKET (12P) :PN2871FA,FB :PN2871LA,LB,LC,LE,LF,LG,RA :PP2871HB,HC,NA,TA,TB,TC :PP2871TD,TE,TF	1
6	092-2210-00	ANT RECEPT	1
7	051-2040-00	IC (TA82764Q)	1
8	331-4040-00 331-4040-50	REAR PLATE :PN2871FA,FB,LA,LB,LE,LF,LG,RA :PP2871HB,HC,NA,TA,TC,TD,TF REAR PLATE :PN2871LC :PP2871HA,NB,TB,TE	1
9	331-3835-00 331-3835-50	TR HOLDER :PN2871FA,FB,LA,LB,LE,LF,LG,RA :PP2871HB,HC,NA,TA,TC TR HOLDER :PN2871LC :PP2871HA,NB,TB,TE	1
10	929-5001-81	CD MECH MODULE	1
11	331-4038-00 331-4038-50	MECH BRKT :PN2871FA,FB,LA,LB,LE,LF,LG,RA :PP2871HB,HC,NA,TA,TC,TD,TF MECH BRKT :PN2871LC :PP2871HA,NB,TB,TE	1

NO.	PART NO.	DESCRIPTION	Q'TY
12	816-4022-50	FLAT WIRE (26P)	1
13	347-7400-00 347-7400-50	WIRE SUPPORT :PN2871FA,FB,LA,LB,LE,LF,LG,RA :PP2871HB,HC,NA,TA,TC,TD,TF WIRE SUPPORT :PN2871LC :PP2871HA,NB,TB,TE	1
14	331-4039-00 331-4039-50	ES PLATE :PN2871FA,FB,LA,LB,LE,LF,LG,RA :PP2871HB,HC,NA,TA,TC,TD,TF ES PLATE :PN2871LC :PP2871HA,NB,TB,TE	1
15	311-1907-00 311-1907-50	LOWER CASE :PN2871FA,FB,LA,LB,LE,LF,LG,RA :PP2871HB,HC,NA,TA,TC,TD,TF LOWER CASE :PN2871LC :PP2871HA,NB,TB,TE	1
16	310-1814-00 310-1814-50	UPPER CASE :PN2871FA,FB,LA,LB,LE,LF,LG,RA :PP2871HB,HC,NA,TA,TC,TD,TF UPPER CASE :PN2871LC :PP2871HA,NB,TB,TE	1
17	313-1950-00 313-1950-10 313-1950-50 313-1950-60	HEAT SINK :PN2871FA,LA,LB,LE,LF,LG :PP2871HB,HC,NA,TA,TC,TD,TF HEAT SINK :PN2871FB,RA HEAT SINK :PN2871LC :PP2871TB,TE HEAT SINK :PP2871HA,NB	1

NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
18	276-0017-01	SETPLATE :PP2871NB	1				
	276-0017-02	SETPLATE :PN2871LC					
	276-0017-03	SETPLATE :PP2871TB					
	276-0017-04	SETPLATE :PP2871TE					
	276-0034-29	SETPLATE :PN2871FA					
	276-0133-00	SETPLATE :PP2871HA					
	286-6735-06	SETPLATE :PP2871NA					
	286-6735-07	SETPLATE :PN2871RA					
	286-6735-08	SETPLATE :PN2871LE					
	286-6735-09	SETPLATE :PP2871LF					
	286-6735-10	SETPLATE :PP2871TA					
	286-6735-11	SETPLATE :PN2871FB					
	286-6735-12	SETPLATE :PP2871HB					
	286-6735-13	SETPLATE :PP2871TC					
	286-6735-14	SETPLATE :PP2871TD					
	286-6735-15	SETPLATE :PP2871TF					
19	716-0878-50	IT SCREW (M2.6x5)	5	32	379-1374-32	INDICATOR :PN-2871F-A,F-B,L-B,L-C	1
20	714-2606-8B	MACHINE SCREW (M2.6x6)	15		379-1379-32	:PN-2871L-E,L-F,R-A	
21	714-2603-8H	MACHINE SCREW (M2.6x3)	4		379-1396-32	:PP-2871H,N,T	
22	714-2610-8H	MACHINE SCREW (M2.6x10)	2	33	331-4048-00	LCD COVER :PN2871FA,FB,LA,LB,LE,LF,LG,RA	1
23	778-3006-00	TAP SCREW (3x6) :PN2871FA,LA,LB,LC,LE,LF,LG	2				
	778-3006-00	:PP2871HA,HB,HC,NA,NB :PP2871TA,TB,TC,TD,TE,TF TAP SCREW (3x6) :PN2871FB,RA					
24	345-5802-00	CUSHION :PN2871FA,FB,LA,LB,LE,LF,LG,RA	1				
	345-5802-50	:PP2871HB,HC,NA,TA,TC,TD,TF CUSHION :PP2871LC :PP2871HA,NB,TB,TE					
25	940-8154-11	ES-ASSY :PP2871HA	1				
	940-8154-21	ES-ASSY :PP2871NB					
	940-8154-31	ES-ASSY :PN2871LC					
	940-8154-41	ES-ASSY :PP2871TB/TE					
	940-8169-21	ES-ASSY :PP2871NA					
	940-8169-26	ES-ASSY :PN2871FA					
	940-8169-36	ES-ASSY :PN2871RA					
	940-8169-41	ES-ASSY :PN2871LE					
	940-8169-46	ES-ASSY :PN2871LF					
	940-8169-51	ES-ASSY :PP2871TA,TC,TD,TF					
	940-8169-56	ES-ASSY :PN2871FB					
	940-8169-61	ES-ASSY :PP2871HB					
	940-8201-10	ES-ASSY :PN2871LA					
	940-8201-15	ES-ASSY :PN2871LB					
	940-8201-20	ES-ASSY :PN2871LG					
	940-8201-25	ES-ASSY :PP2871HC					
26	-----	SWITCH PWB	1	36	382-7424-00	BUTTON :PN2871LA,LB	1
27	013-6201-52	SWITCH	14	382-7424-30	:PP2871HC		
28	001-7093-91	LED (RFY1112H-TR : YEL) :PN2871LA,LB,LC,LE,LF,LG,RA	35				
	001-7093-92	:PP2871HA,NA,NB LED (RFA1112H-13-TR:ORG) :PN2871FA,FB :PP2871HB,HC,TA,TB,TC,TD :PP2871TE,TF					
29	016-7000-00	ROTARY SWITCH	1	37	335-7528-00	BUTTON TRIM :PN2871LA,LB,LG	1
30	335-7532-30	LCD HOLDER :PN2871FA,FB,LA,LB,LE,LF,LG,RA	1				
	335-7532-50	:PP2871HB,HC,NA,TA,TC,TD,TF LCD HOLDER :PN2871LC :PP2871HA,NB,TB,TE					
31	335-7770-00	COLOR FILTER :PN2871FA,FB,HC,LA,LB,LE,LF,LG	1	38	380-5632-00	KNOB :PN2871LA,LB	1
	335-7770-50	:PP2871HB,NA,TA,TC,TD,TF COLOR FILTER :PP2871LC :PP2871HA,NB,TB :PP2871TE		380-5632-30	:PP2871HC		

# ELECTRICAL PARTS LIST

## Main PWB(B1) section

Note) Some parts depend on each model. The model name is specified in the description.

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
ANT101	092-2210-00	ANTENNA RECEPT	C169	168-8212-55	820pF K	C333	168-8212-55	820pF K
BL101	880-1921C	AM/FM TUNER (PP2871H,N)	C170	166-1007-50	10pF CH	C334	168-8212-55	820pF K
BL101	880-1921O	AM/FM TUNER (PN2871LA,LG)	C171	166-1007-50	10pF CH	C335	188-1063-38	16V 10uF
BL101	880-1921T	AM/FM TUNER (PN2871F,LB,LC,LE,LF,R) (PP2871T)	C172	166-1007-50	10pF CH	C336	188-1063-38	16V 10uF
C104	168-2222-55	2200pF K (PN2871F,L,R) (PP2871T)	C201	166-1007-50	10pF CH	C337	168-1832-55	0.018uF K
C108	166-1511-50	150pF CH (PN2871F,L,R) (PP2871T)	C202	168-4732-78	0.047uF K	C338	178-1052-78	1uF (PN2871F,L,R) (PP2871HB,HC,NA,T)
C108	119-0000-05	1/10W 0 ohm JW (PP2871H,N)	C203	168-1022-55	1000pF K	C339	178-1052-78	1uF (PN2871F,L,R) (PP2871HB,HC,NA,T)
C113	168-1032-55	0.01uF K	C204	163-3363-45	25V 33uF	C340	178-1052-78	1uF (PN2871F,L,R) (PP2871HB,HC,NA,T)
C121	166-1201-50	12pF CH	C205	168-1022-55	1000pF K	C341	178-1052-78	1uF (PN2871F,L,R) (PP2871HB,HC,NA,T)
C122	166-1007-50	10pF CH	C206	166-1011-50	100pF CH	C401	188-4763-38	16V 47uF
C123	168-1042-78	16V 0.1uF	C207	166-1011-50	100pF CH	C403	042-0416-59	10V 33uF M TAN
C126	188-1073-28	10V 100uF	C208	166-1011-50	100pF CH	C404	168-1032-55	0.01uF K
C127	166-2201-50	22pF CH	C209	166-1011-50	100pF CH	C405	168-1042-78	16V 0.1uF
C128	043-0277-51	0.022uF	C212	166-2201-50	22pF CH	C406	168-2232-55	0.022uF K
C129	168-1042-78	16V 0.1uF	C213	168-1042-78	16V 0.1uF	C407	168-1042-78	16V 0.1uF
C130	188-1073-28	10V 100uF	C214	168-1042-78	16V 0.1uF	C408	042-1452-82	16V 100uF
C131	168-1022-55	1000pF K	C215	168-1042-78	16V 0.1uF	C410	168-1052-78	1uF
C132	166-2201-50	22pF CH	C216	187-1073-27	10V 100uF	C411	168-4722-55	4700pF K (PN2871F,L,R) (PP2871T)
C133	168-1042-78	16V 0.1uF	C218	168-1052-78	1uF	C412	188-1063-38	16V 10uF
C134	042-1458-93	50V 2.2uF	C301	178-1052-78	1uF	C413	168-3932-78	0.039uF K
C135	168-8212-55	820pF K (PN2871F,L,R) (PP2871T)	C302	178-1052-78	1uF	C414	168-3932-78	0.039uF K
C135	168-6812-55	680pF K (PP2871H,N)	C303	168-1022-55	1000pF K	C415	168-3932-78	0.039uF K
C136	166-2201-50	22pF CH	C304	168-1022-55	1000pF K	C416	168-3932-78	0.039uF K
C137	168-4712-55	470pF K	C305	168-1022-55	1000pF K	C417	188-1063-68	50V 10uF
C138	187-4763-37	16V 47uF	C306	168-2232-55	0.022uF K	C418	166-1011-50	100pF CH
C139	166-1011-50	100pF CH	C307	166-1011-50	100pF CH	C419	188-1063-38	16V 10uF
C141	166-1011-50	100pF CH	C308	166-1011-50	100pF CH	C420	168-1052-78	1uF
C142	168-1042-78	16V 0.1uF	C309	189-2273-29	10V 220uF	C421	188-1063-38	16V 10uF
C143	188-1073-28	10V 100uF	C310	188-1063-38	16V 10uF	C422	172-1041-15	0.1uF
C144	168-1052-78	1uF	C311	168-6822-55	6800pF K	C423	042-1447-00	16V 2200uF
C147	168-1022-55	1000pF K	C312	188-4763-38	16V 47uF	C425	168-6822-55	6800pF K
C148	178-1042-78	0.1uF	C313	168-1052-78	1uF	C426	168-6822-55	6800pF K
C150	188-3363-28	10V 33uF	C314	178-1242-78	0.12uF	C427	168-6822-55	6800pF K
C151	168-2732-55	16V 0.027uF K (PN2871F,LB,LC,LE,LF,R) (PP2871H,N,T)	C315	178-1242-78	0.12uF	C428	168-6822-55	6800pF K
C151	168-3932-78	0.039uF K (PP2871LA,LG)	C316	178-3332-78	0.033uF	C429	168-1042-78	16V 0.1uF
C153	168-3932-78	0.039uF K (PN2871LA,LG)	C317	178-1242-78	0.12uF	C430	168-6822-55	6800pF K
C154	188-3353-68	50V 3.3uF	C318	178-1242-78	0.12uF	C431	168-6822-55	6800pF K
C155	168-2245-79	0.22uF Z	C319	168-1052-78	1uF	C432	168-6822-55	6800pF K
C156	168-3332-78	0.033uF K	C320	188-2263-18	6.3V 22uF	C433	168-6822-55	6800pF K
C157	168-1032-55	0.01uF K	C321	178-4742-78	0.47uF	C435	168-1042-78	16V 0.1uF
C158	168-6832-78	0.068uF K	C322	168-1222-55	1200pF K	C436	168-1042-78	16V 0.1uF
C159	168-2222-55	2200pF K	C323	168-1222-55	1200pF K	C437	188-1063-38	16V 10uF
C160	168-3332-78	0.033uF K	C324	178-4742-78	0.47uF	C438	168-1042-78	16V 0.1uF
C161	168-4722-55	4700pF K	C325	168-1052-78	1uF	C439	168-1042-78	16V 0.1uF
C162	168-3332-78	0.033uF K	C326	168-1052-78	1uF	C440	188-1053-68	50V 1uF
C163	178-2255-79	2.2uF	C327	178-1842-78	0.18uF	C442	168-1022-55	1000pF K
C164	168-3332-78	0.033uF K	C328	178-1842-78	0.18uF	C443	168-1022-55	1000pF K
C165	178-2255-79	2.2uF	C329	178-1842-78	0.18uF	C445	168-1042-78	16V 0.1uF
C166	168-5632-78	16V 0.056uF	C330	178-1842-78	0.18uF	C446	172-1041-15	0.1uF
C167	168-2232-55	0.022uF K	C331	168-8212-55	820pF K	CCT201	050-0145-52	1/16W 1k ohm x4
C168	168-1022-55	1000pF K	C332	168-8212-55	820pF K	CCT202	050-0145-52	1/16W 1k ohm x4
						CCT203	050-0145-52	1/16W 1k ohm x4
						CCT204	050-0145-52	1/16W 1k ohm x4
						CCT205	050-0145-52	1/16W 1k ohm x4

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
CCT206	050-0145-52	1/16W 1k ohm x4	Q302	125-0020-91	UN5111 (PN2871F,L,R)	R215	119-4731-15	1/10W 47k ohm
CCT207	050-0145-52	1/16W 1k ohm x4		192-4116-00	(PP2871HB,HC,NA,T)	R217	119-1031-15	1/10W 10k ohm
CCT208	050-0145-52	1/16W 1k ohm x4	Q303	192-4116-00	2SC4116 (PN2871F,L,R)	R218	119-1031-15	1/10W 10k ohm
CCT209	050-0145-52	1/16W 1k ohm x4		192-4116-00	(PP2871HB,HC,NA,T)	R219	119-4731-15	1/10W 47k ohm
CCT211	050-0145-52	1/16W 1k ohm x4	Q304	192-4116-00	2SC4116 (PN2871F,L,R)	R220	119-2231-15	1/10W 22k ohm
CCT212	050-0145-52	1/16W 1k ohm x4		192-4116-00	(PP2871HB,HC,NA,T)	R221	119-1031-15	1/10W 10k ohm (PN2871LB,PP2871HB,HC)
D101	001-0466-90	S5688B (PN2871F,L,R) (PP2871T)	Q305	192-4116-00	2SC4116 (PN2871F,L,R)	R222	119-1031-15	1/10W 10k ohm (PN2871F,LA,LC,LE,LF,LG,R) (PP2871H,N,T)
D301	001-0516-90	MA111 (PN2871F,L,R) (PP2871HB,HC,NA,T)	Q401	193-2118-00	2SD2118F5 Q,R,S	R223	119-1041-15	1/10W 100k ohm
D302	001-0516-90	MA111 (PN2871F,L,R) (PP2871HB,HC,NA,T)	Q402	191-1197-50	2SB1197K Q,R	R224	119-1031-15	1/10W 10k ohm (PN2871LA,LB,LG) (PP2871HB,HC)
D303	001-4305-39	UDZSTE-17 36B (PN2871F,L,R) (PP2871HB,HC,NA,T)	Q403	125-2026-91	UN5211	R225	119-1031-15	1/10W 10k ohm (PN2871F,LC,LE,LF,R) (PP2871HA,N,T)
D401	001-0529-48	MA8091-H	Q404	125-0020-91	UN5111	R226	119-4731-15	1/10W 47k ohm
D402	001-0516-90	MA111	Q405	125-2026-91	UN5211	R228	119-1031-15	1/10W 10k ohm
D403	001-0466-90	S5688B	Q406	191-1240-00	2SB1240 (PN2871F,L,R)	R229	119-1021-15	1/10W 1k ohm
D404	001-0516-90	MA111 (PN2871F,L,R) (PP2871T)	Q407	125-2026-95	UN521N (PN2871F,L,R)	R231	119-1031-15	1/10W 10k ohm
D405	001-0504-31	HZS6 A2L	Q408	193-1858-00	2SD1858	R232	119-6821-15	1/10W 6.8k ohm (PN2871FB,RA)
D406	001-0504-45	HZS9 B1L	Q409	125-9003-92	IMD3	R233	119-1031-15	1/10W 10k ohm
D407	001-2015-00	RL253	Q410	103-2012-00	2SD2012	R234	119-1031-15	1/10W 10k ohm (PN2871FB,RA)
D408	001-0529-48	MA8091-H	Q411	125-2026-91	UN5211	R236	119-1041-15	1/10W 100k ohm
D409	001-0529-34	MA8062-L	Q412	193-2118-00	2SD2118F5 Q,R,S	R237	119-4731-15	1/10W 47k ohm
D410	001-0466-90	S5688B	Q414	193-1306-00	2SD1306 (PN2871LA,LG)	R238	119-4731-15	1/10W 47k ohm
D411	001-4301-68	HZU18B1 (PN2871FB,RA)	Q415	192-2712-00	2SC2712	R240	119-2231-15	1/10W 22k ohm
D412	001-4301-68	HZU18B1 (PN2871FB,RA)	Q416	192-2712-00	2SC2712 (PN2871LA,LG)	R241	119-0000-05	1/10W 0 ohm JW
IC103	051-4618-90	HA12181FP-EL-E	R106	119-0000-05	1/10W 0 ohm JW	R242	119-3341-15	1/10W 330k ohm
IC201	052-1187-00	LC723663-9D34-E (PN2871FA,L,R) (PP2871H,N,TA,TB,TC)	R120	119-4741-15	1/10W 470k ohm	R301	119-4731-15	1/10W 47k ohm (PN2871F,L,R) (PP2871HB,HC,NA,T)
IC201	052-1187-20	LC723663-9D49-E (PN2871FB) (PP2871TD,TE,TF)	R121	119-2221-15	1/10W 2.2k ohm	R302	119-4731-15	1/10W 47k ohm (PN2871F,L,R) (PP2871HB,HC,NA,T)
IC301	051-3034-90	NJM4558V (PN2871FB,RA)	R122	119-2221-15	1/10W 2.2k ohm	R303	119-2231-15	1/10W 22k ohm (PN2871F,L,R) (PP2871HB,HC,NA,T)
IC302	051-5029-00	LC75412EH	R123	119-2721-15	1/10W 2.7k ohm	R304	119-4731-15	1/10W 47k ohm (PP2871HA,NB)
IC401	051-3341-90	BD3931FP	R124	119-1021-15	1/10W 1k ohm	R305	119-1031-15	1/10W 10k ohm (PN2871F,L,R)
IC402	051-2040-00	TA8276H	R125	119-8201-15	1/10W 82 ohm	R306	119-3011-15	1/10W 300 ohm (PN2871FB,RA)
J201	074-2003-76	SOCKET(26P)	R126	119-1021-15	1/10W 1k ohm	R307	119-5631-15	1/10W 56k ohm (PN2871F,L,R) (PP2871HB,HC,NA,T)
J202	076-3011-64	14P	R127	119-1021-15	1/10W 1k ohm	R308	119-1031-15	1/10W 10k ohm (PN2871F,L,R)
J301	074-1302-08	TH8P-SOCKET (PN2871FB,RA)	R128	119-2731-15	1/10W 27k ohm	R309	119-1031-15	1/10W 2.2k ohm (PP2871HB,HC,NA,T)
J302	074-1013-00	12P (PN2871F,L,R) (PP2871HB,HC,NA,T)	R129	119-1021-15	1/10W 1k ohm	R310	119-1031-15	1/10W 10k ohm (PN2871F,L,R)
J401	074-4009-20	SOCKET(20P)	R140	119-1021-15	1/10W 1k ohm	R311	119-1031-15	1/10W 10k ohm (PN2871F,L,R)
JW401	060-0054-03	JW 10mm	R141	119-1841-15	1/10W 180k ohm	R312	032-0140-99	1/10W 39k ohm F (PN2871FB,RA)
JW402	060-0054-03	JW 10mm	R142	119-2221-15	1/10W 2.2k ohm	R313	032-0140-99	1/10W 39k ohm F (PN2871FB,RA)
JW403	060-0054-03	JW 10mm	R143	119-1031-15	1/10W 10k ohm	R314	119-5621-15	1/10W 5.6k ohm (PN2871F,L,R)
L104	010-2003-04	30uH	R144	119-5621-15	1/10W 5.6k ohm	R315	119-5621-15	1/10W 5.6k ohm (PP2871HB,HC,NA,T)
L105	010-3407-75	120uH J	R145	119-1031-15	1/10W 2.2k ohm			
L201	010-6009-64	2.2uH J	R146	119-1031-15	1/10W 10k ohm			
L401	009-0670-81	180uH	R147	119-2221-15	1/10W 2.2k ohm			
Q105	192-4116-51	2SC4116 G,L	R148	119-1021-15	1/10W 1k ohm			
Q106	192-4116-51	2SC4116 G,L	R149	119-6821-15	1/10W 6.8k ohm			
Q108	190-1162-00	2SA1162	R201	119-1021-15	1/10W 1k ohm			
Q109	190-1162-00	2SA1162	R202	119-1021-15	1/10W 1k ohm			
Q202	125-2026-91	UN5211 (PN2871FB,RA)	R203	119-1031-15	1/10W 10k ohm			
Q203	125-0020-96	UN5110-Q,R,S (PN2871FB,RA)	R204	119-0000-05	1/10W 0 ohm JW			
Q205	125-0002-92	RN2402	R205	119-4731-15	1/10W 47k ohm			
Q301	125-2026-91	UN5211 (PN2871F,L,R) (PP2871HB,HC,NA,T)	R206	119-1031-15	1/10W 10k ohm			
			R207	119-4731-15	1/10W 47k ohm			
			R208	119-3311-15	1/10W 330 ohm			
			R209	119-3311-15	1/10W 330 ohm			
			R210	119-4731-15	1/10W 47k ohm			
			R211	119-1031-15	1/10W 10k ohm			
			R212	119-1031-15	1/10W 10k ohm			
			R213	119-1031-15	1/10W 10k ohm			
			R214	119-4731-15	1/10W 47k ohm			

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
R316	119-3011-15	1/10W 300 ohm (PN2871F,L,R) (PP2871HB,HC,NA,T)	R405	119-1231-15	1/10W 12k ohm	R432	119-5611-15	1/10W 560 ohm
R317	119-3011-15	1/10W 300 ohm (PN2871F,L,R) (PP2871HB,HC,NA,T)	R406	119-4721-15	1/10W 4.7k ohm	R433	116-4791-15	1/4W 4.7 ohm
R318	032-0140-04	1/10W 8.2k ohm F (PN2871FB,RA)	R407	119-1021-15	1/10W 1k ohm	R434	116-4791-15	1/4W 4.7 ohm
R319	032-0140-04	1/10W 8.2k ohm F (PN2871FB,RA)	R408	119-2221-15	1/10W 2.2k ohm	R435	119-0000-05	1/10W 0 ohm JW (PN2871F,LB,LC,LE,LF,RA) (PP2871H,N,T)
R320	119-1531-15	1/10W 15k ohm (PN2871FB,RA)	R410	119-1531-15	1/10W 15k ohm (PP2871HA)	R435	168-4742-78	0.47uF (PN2871LA,LG)
R321	119-4731-15	1/10W 47k ohm (PN2871FB,RA)	R410	119-2221-15	1/10W 2.2k ohm (PN2871F,L,R) (PP2871HB,HC,N,T)	R436	116-1531-15	1/4W 15k ohm
R322	119-4731-15	1/10W 47k ohm (PN2871FB,RA)	R411	119-1531-15	1/10W 15k ohm (PP2871HA)	R437	119-0000-05	1/10W 0 ohm JW (PN2871LA,LG)
R323	119-0000-05	1/10W 0 ohm JW	R411	119-2221-15	1/10W 2.2k ohm (PN2871F,L,R) (PP2871HB,HC,N,T)	R438	119-0000-05	1/10W 0 ohm JW (PN2871F,LB,LC,LE,LF,R) (PP2871H,N,T)
R324	032-0106-77	1/10W 51k ohm D (PN2871F,L,R) (PP2871HB,HC,NA,T)	R412	116-1091-15	1/4W 1 ohm (PN2871F,L,R) (PP2871T)	R439	119-1041-15	1/10W 100k ohm
R325	032-0106-77	1/10W 51k ohm D (PN2871F,L,R) (PP2871HB,HC,NA,T)	R413	116-1221-15	1/4W 1.2k ohm (PN2871F,L,R) (PP2871T)	R440	119-1041-15	1/10W 100k ohm
R326	119-0000-05	1/10W 0 ohm JW	R414	119-1031-15	1/10W 10k ohm (PN2871F,L,R) (PP2871T)	R441	119-1831-15	1/4W 18k ohm (PP2871HA)
R327	119-0000-05	1/10W 0 ohm JW	R415	119-0000-05	1/10W 0 ohm JW (PN2871F,L,R) (PP2871T)	R442	119-1831-15	1/4W 18k ohm (PP2871HA)
R328	119-0000-05	1/10W 0 ohm JW	R417	116-2211-15	1/4W 220 ohm	R443	119-0000-05	1/10W 0 ohm JW (PN2871F,LA,LB,LC,LG,RA) (PP2871H,N,T)
R329	119-0000-05	1/10W 0 ohm JW	R418	119-1041-15	1/10W 100k ohm	R444	119-0000-05	1/10W 0 ohm JW (PN2871L)
R330	032-0106-77	1/10W 51k ohm D (PN2871F,L,R) (PP2871HB,HC,NA,T)	R419	119-4721-15	1/10W 4.7k ohm	R445	119-0000-05	1/10W 0 ohm JW (PP2871HA,N)
R331	032-0106-77	1/10W 51k ohm D (PN2871F,L,R) (PP2871HB,HC,NA,T)	R420	116-3911-15	1/4W 390 ohm	R446	119-0000-05	1/10W 0 ohm JW (PN2871FA,LA,LE,LF,LG)
R332	119-0000-05	1/10W 0 ohm JW	R421	116-3911-15	1/4W 390 ohm	SUP102	060-0122-90	DSP-201M-S00B
R333	119-3931-15	1/10W 39k ohm	R422	119-1041-15	1/10W 100k ohm	TC201	004-1580-60	30pF
R334	119-1821-15	1/10W 1.8k ohm	R423	116-6811-15	1/4W 680 ohm	TH401	002-0229-90	PTH8L05B (PN2871F,L,R) (PP2871T)
R335	119-1821-15	1/10W 1.8k ohm	R425	119-0000-05	1/10W 0 ohm JW (PN2871FB,RA)	TM101	073-0768-90	TERMINAL
R336	119-3931-15	1/10W 39k ohm	R426	116-2721-15	1/4W 2.7k ohm	TM102	073-0768-90	TERMINAL
R337	119-4721-15	1/10W 4.7k ohm	R427	119-0000-05	1/10W 0 ohm JW (PN2871FB,RA)	TM401	073-0768-90	TERMINAL
R338	119-4721-15	1/10W 4.7k ohm	R428	119-5611-15	1/10W 560 ohm (PN2871LA,LG)	TM402	073-0768-90	TERMINAL
R339	119-4721-15	1/10W 4.7k ohm	R429	119-1031-15	1/10W 10k ohm	VR102	012-4318-56	VR 10k ohm
R340	119-4721-15	1/10W 4.7k ohm	R430	116-1831-15	1/4W 18k ohm (PN2871LA,LG)	X201	061-1053-00	4.5MHz
R401	116-4711-15	1/4W 470 ohm	R431	119-4721-15	1/10W 4.7k ohm (PN2871LA,LG)	PWB	039-2953-00	PWB(WITHOUT COMPONENTS)
R402	116-1821-15	1/4W 1.8k ohm						
R403	119-2231-15	1/10W 22k ohm						
R404	119-4741-15	1/10W 470k ohm						

## Switch PWB(B2) section

Note) Some parts depend on each model. The model name is specified in the description.

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C701	042-0416-59	10V 33uF M TAN	D723	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	D733	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)
C703	168-1042-78	16V 0.1uF	D723	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	D733	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)
C704	168-1042-78	16V 0.1uF	D724	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	D734	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)
C705	168-1042-78	16V 0.1uF	D724	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	D734	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)
C706	168-6812-55	680pF K	D725	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	D735	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)
C707	168-1022-55	1000pF K	D725	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	D735	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)
C708	168-1032-55	0.01uF K (PN2871F,LB,LC,LE,LF,R) (PP2871H,N,T)	D726	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	D736	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)
C708	168-1052-78	1uF (PN2871LA,LG)	D726	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	D736	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)
C709	168-1042-78	16V 0.1uF	D727	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	D737	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)
CCT701	050-0145-52	1/16W 1k ohm x4	D727	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	D737	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)
CCT702	050-0145-52	1/16W 1k ohm x4	D728	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	D738	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)
CCT703	050-0145-52	1/16W 1k ohm x4	D728	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	D738	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)
D702	001-0516-90	MA111	D729	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	D739	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)
D704	001-0516-90	MA111	D729	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	D739	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)
D706	001-0516-90	MA111	D730	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	D740	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)
D707	001-0516-90	MA111	D730	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	D740	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)
D708	001-0516-90	MA111	D731	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	D741	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)
D709	001-0516-90	MA111	D731	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	D741	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)
D710	001-0516-90	MA111	D732	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	D742	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)
D715	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	D726	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	D736	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)
D715	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	D727	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	D737	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)
D716	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	D727	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	D737	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)
D716	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	D728	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	D738	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)
D717	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	D728	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	D738	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)
D717	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	D729	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	D739	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)
D718	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	D729	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	D739	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)
D718	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	D730	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	D740	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)
D720	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	D730	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	D740	001-7093-92	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)
D720	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	D731	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	D741	001-7093-92	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)
D721	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	D731	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	D741	001-7093-92	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)
D721	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	D732	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	D742	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)
D722	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	D732	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	D742	001-7093-92	RFY1112H-16-TR YEL (PN2871F) (PP2871HB,HC,T)
D722	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)						

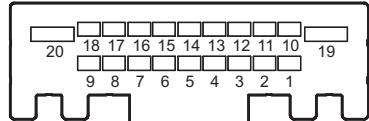
REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
D743	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	R701	119-1021-15	1/10W 1k ohm	R721	116-3021-15	1/4W 3k ohm (PN2871F) (PP2871HB,HC,T)
D743	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	R702	119-1021-15	1/10W 1k ohm	R721	116-2721-15	1/4W 2.7k ohm (PN2871L,R) (PP2871HA,N)
D744	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	R705	119-1021-15	1/10W 1k ohm	R722	119-2721-15	1/10W 2.7k ohm (PN2871F) (PP2871HB,HC,T)
D744	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	R706	119-1021-15	1/10W 1k ohm	R722	119-3921-15	1/10W 3.9k ohm (PN2871L,R) (PP2871HA,N)
D745	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	R707	119-1021-15	1/10W 1k ohm	R723	116-2221-15	1/4W 2.2k ohm (PN2871F) (PP2871HB,HC,T)
D745	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	R708	119-2721-15	1/10W 2.7k ohm (PN2871L,R) (PP2871HA,N)	R723	116-3321-15	1/4W 3.3k ohm (PN2871L,R) (PP2871HA,N)
D746	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	R709	119-3921-15	1/10W 3.9k ohm (PN2871F) (PP2871HB,HC,T)	R724	116-2221-15	1/4W 2.2k ohm (PN2871F) (PP2871HB,HC,T)
D746	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	R711	119-6831-15	1/10W 68k ohm	R724	116-3321-15	1/4W 3.3k ohm (PN2871L,R) (PP2871HA,N)
D746	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	R712	116-2721-15	1/4W 2.7k ohm (PN2871L,R) (PP2871HA,N)	R725	116-4321-15	1/4W 4.3k ohm (PN2871F) (PP2871HB,HC,T)
D747	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	R712	116-2421-15	1/4W 2.4k ohm (PN2871F) (PP2871HB,HC,T)	R725	116-3021-15	1/4W 3.0k ohm (PN2871L,R) (PP2871HA,N)
D747	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	R713	116-2721-15	1/4W 2.7k ohm (PN2871L,R) (PP2871HA,N)	R726	116-3321-15	1/4W 3.3k ohm (PN2871F) (PP2871HB,HC,T)
D748	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	R714	116-2421-15	1/4W 2.4k ohm (PN2871F) (PP2871HB,HC,T)	R726	116-3021-15	1/4W 3.0k ohm (PN2871L,R) (PP2871HA,N)
D748	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	R714	116-2421-15	1/4W 2.4k ohm (PN2871F) (PP2871HB,HC,T)	R727	116-1521-15	1/4W 1.5k ohm (PN2871F) (PP2871HB,HC,T)
D749	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	R715	116-2721-15	1/4W 2.7k ohm (PN2871L,R) (PP2871HA,N)	R727	116-1821-15	1/4W 1.8k ohm (PN2871L,R) (PP2871HA,N)
D749	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	R715	116-3921-15	1/4W 3.9k ohm (PN2871F) (PP2871HB,HC,T)	R728	116-4321-15	1/4W 4.3k ohm (PN2871F) (PP2871HB,HC,T)
D749	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	R716	116-2721-15	1/4W 2.7k ohm (PN2871L,R) (PP2871HA,N)	R728	116-3921-15	1/4W 3.9k ohm (PN2871L,R) (PP2871HA,N)
D750	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	R716	116-2421-15	1/4W 2.4k ohm (PN2871F) (PP2871HB,HC,T)	R732	168-1042-78	16V 0.1uF (PN2871LA,LG)
D750	001-7093-91	RFY1112H-16-TR YEL (PN2871L,R) (PP2871HA,N)	R717	116-2721-15	1/4W 2.7k ohm (PN2871L,R) (PP2871HA,N)	S701	013-6201-52	SKPMAP010
D750	001-7093-92	RFA1112H ORG (PN2871F) (PP2871HB,HC,T)	R717	116-2421-15	1/4W 2.4k ohm (PN2871F) (PP2871HB,HC,T)	S702	013-6201-52	SKPMAP010
IC701	051-6000-10	LC75853NE	R718	116-2721-15	1/4W 2.7k ohm (PN2871L,R) (PP2871HA,N)	S703	013-6201-52	SKPMAP010
J701	074-3014-64	SOCKET(14P)	R718	116-2421-15	1/4W 2.4k ohm (PN2871F) (PP2871HB,HC,T)	S704	013-6201-52	SKPMAP010
LCD701	379-1379-32	INDICATOR (PN-2871F-A,F-B) (PN-2871L-B,L-C) (PN-2871L-E,L-F) (PN-2871R-A) (PP-2871H,N,T)	R719	116-3321-15	1/4W 3.3k ohm	S705	013-6201-52	SKPMAP010
	379-1379-32	INDICATOR (PN2871LA)	R720	116-3021-15	1/4W 3k ohm (PN2871L,R) (PP2871HA,N)	S706	013-6201-52	SKPMAP010
	379-1396-32	INDICATOR (PN2871LG)	R720	116-3321-15	1/4W 3.3k ohm (PN2871F) (PP2871HB,HC,T)	S707	013-6201-52	SKPMAP010
			R719	116-3321-15	1/4W 3.3k ohm	S711	013-6201-52	SKPMAP010
			R720	116-3021-15	1/4W 3k ohm (PN2871L,R) (PP2871HA,N)	S712	013-6201-52	SKPMAP010
			R720	116-3321-15	1/4W 3.3k ohm (PN2871F) (PP2871HB,HC,T)	S713	013-6201-52	SKPMAP010
						S714	016-7000-00	ROTARY ENCODER
						S715	013-6201-52	SKPMAP010
						TM701	073-0778-90	TERMINAL
						TM702	073-0778-90	TERMINAL
						PWB	039-2813-00	PWB(WITHOUT COMPONENTS)

# PRINTED WIRING BOARD

Main PWB(B1) section

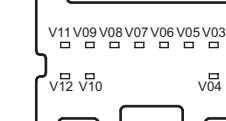
1	N.C.	11	FRONT-R(+)
2	FRONT-L(+)	12	FRONT-R(-)
3	FRONT-L(-)	13	REAR-R(+)
4	REAR-L(+)	14	REAR-R(-)
5	REAR-L(-)	15	STRG-GND
6	STRG SW A (PN-2871F-B,R-A)	16	STRG SW B (PN-2871F-B,R-A)
7	ACC	17	N.C.
8	ILLUMI CONTROL (PN-2871L-A,L-G)	18	N.C.
9	ILLUMI(+)	19	BACK UP
10	N.C.	20	GND

Main Connector  
(TH18 HW)

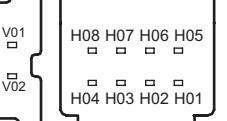


V01	CD-L(-)	V07	N.C.
V02	CD-L(+)	V08	SLAVE-REQ
V03	CD-R(-)	V09	CD-COMB(RXD)
V04	CD-R(+)	V10	COMB-CD(TXD)
V05	GND	V11	N.C.
V06	SHIELD-GND	V12	N.C.

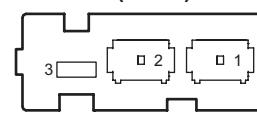
NDS Connector  
(A12 MW)



TEL Connector  
(TH08 HW)



ANT Connector  
(GT13)

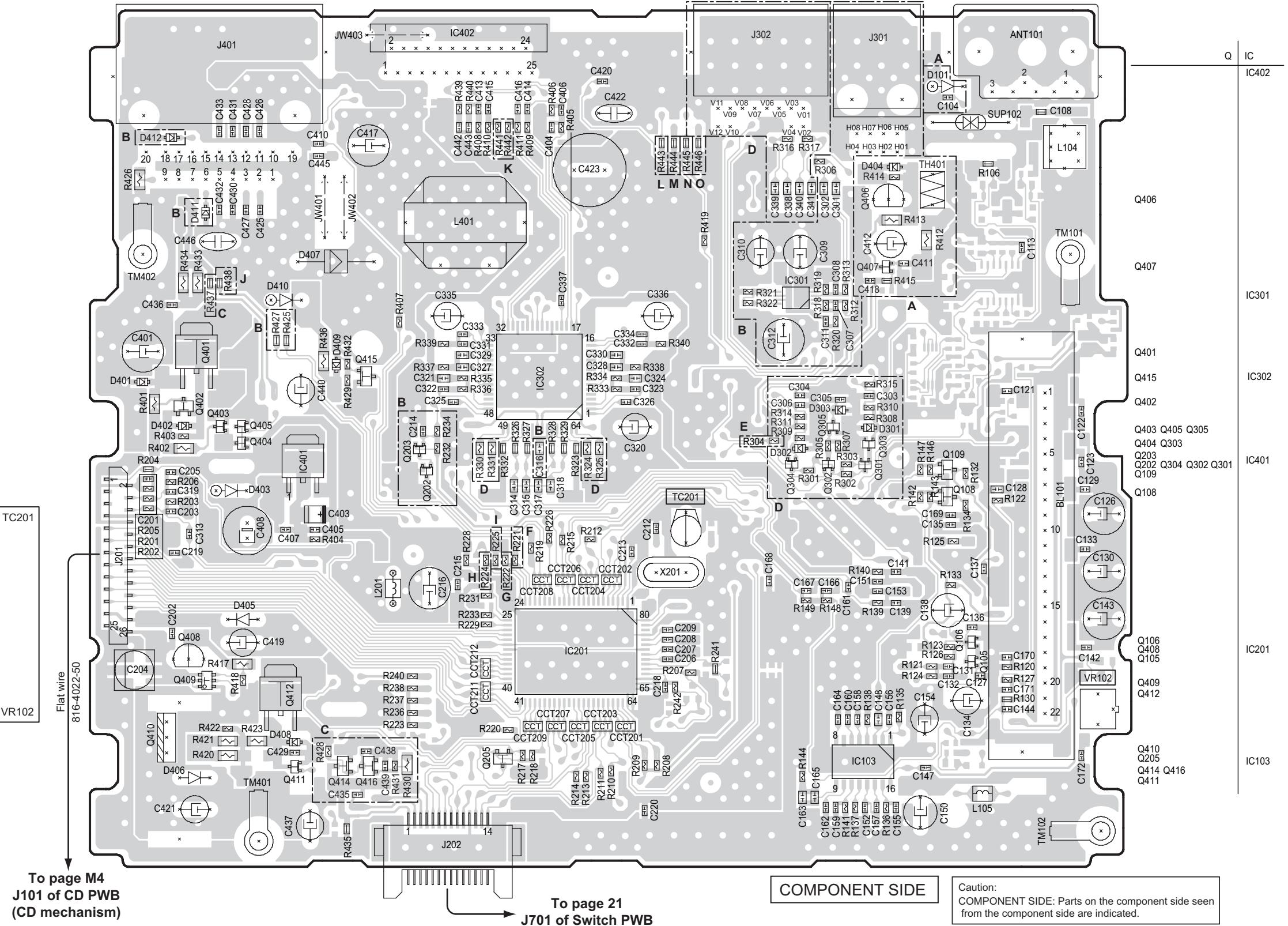


1	N.C.
2	MAIN ANT
3	ANT+B

## DIFFERENCES

\* Following parts depend on each model.

No.	REF No.	Model
A	C104, C411 C412, C418 D101, D404 Q406, Q407 R412, R413 R414, R415 TH401	PN2871F,L,R PP2871T
B	C214, C301 C302, C307 C308, C309 C310, C311 C312, C316 D411, D412 IC301, J301 Q202, Q203 R232, R234 R306, R312 R313, R318 R319, R320 R321, R322 R425, R427	PN2871FB,RA
C	C435, C438 C439, Q414 Q416, R428 R430, R431 R437	PN2871LA,LG
D	C303, C304 C305, C306 C338, C339 C340, C341 D301, D302 D303, J302 Q301, Q302 Q303, Q304 Q305, R301 R302, R303 R305, R307 R308, R309 R310, R311 R314, R315 R316, R317 R324, R325 R330, R331	PN2871F,L,R PP2871HB,HC,NA,T
E	R304	PP2871HA,NB
F	R221	PN2871LB PP2871HB,HC
G	R222	PN2871F,LA,LC,LE,LF,LG,R PP2871H,N,T
H	R224	PN2871LA,LB,LG PP2871HB,HC
I	R225	PN2871F,LC,LE,LF,R PP2871HA,N,T
J	R438	PN2871F,LB,LC,LE,LF,R PP2871H,N,T
K	R441, R442	PP2871HA
L	R443	PN2871F,LA,LB,LC,LG,RA PP2871H,N,T
M	R444	PN2871L PP2871HA,N
N	R445	PN2871FB,LA,LB,LC,LG,RA PP2871H
O	R446	PN2871FA,LA,LE,LF,LG PP2871HA,T



To page M4  
J101 of CD PWB  
(CD mechanism)

To page 21  
J701 of Switch PWB

Caution:  
COMPONENT SIDE: Parts on the component side seen  
from the component side are indicated.

## Main PWB(B1) section

H01	N.C.
H02	N.C.
H03	GND
H04	N.C.
H05	TEL-ON
H06	TEL-IN(-)
H07	TEL-IN(+)
H08	TEL SHIELD-GND

V01	CD-L(-)	V07	N.C.
V02	CD-L(+)	V08	SLAVE-REQ
V03	CD-R(-)	V09	CD-COMB(RXD)
V04	CD-R(+)	V10	COMB-CD(TXD)
V05	GND	V11	N.C.
V06	SHIELD-GND	V12	N.C.

1	N.C.	11	FRONT-R(+)
2	FRONT-L(+)	12	FRONT-R(-)
3	FRONT-L(-)	13	REAR-R(+)
4	REAR-L(+)	14	REAR-R(-)
5	REAR-L(-)	15	STRG-GND
6	STRG SW A (PN-2871F-B,R-A)	16	STRG SW B (PN-2871F-B,R-A)
7	ACC	17	N.C.
8	ILLUMI CONTROL (PN-2871L-A,L-G)	18	N.C.
9	ILLUMI(+)	19	BACK UP
10	N.C.	20	GND

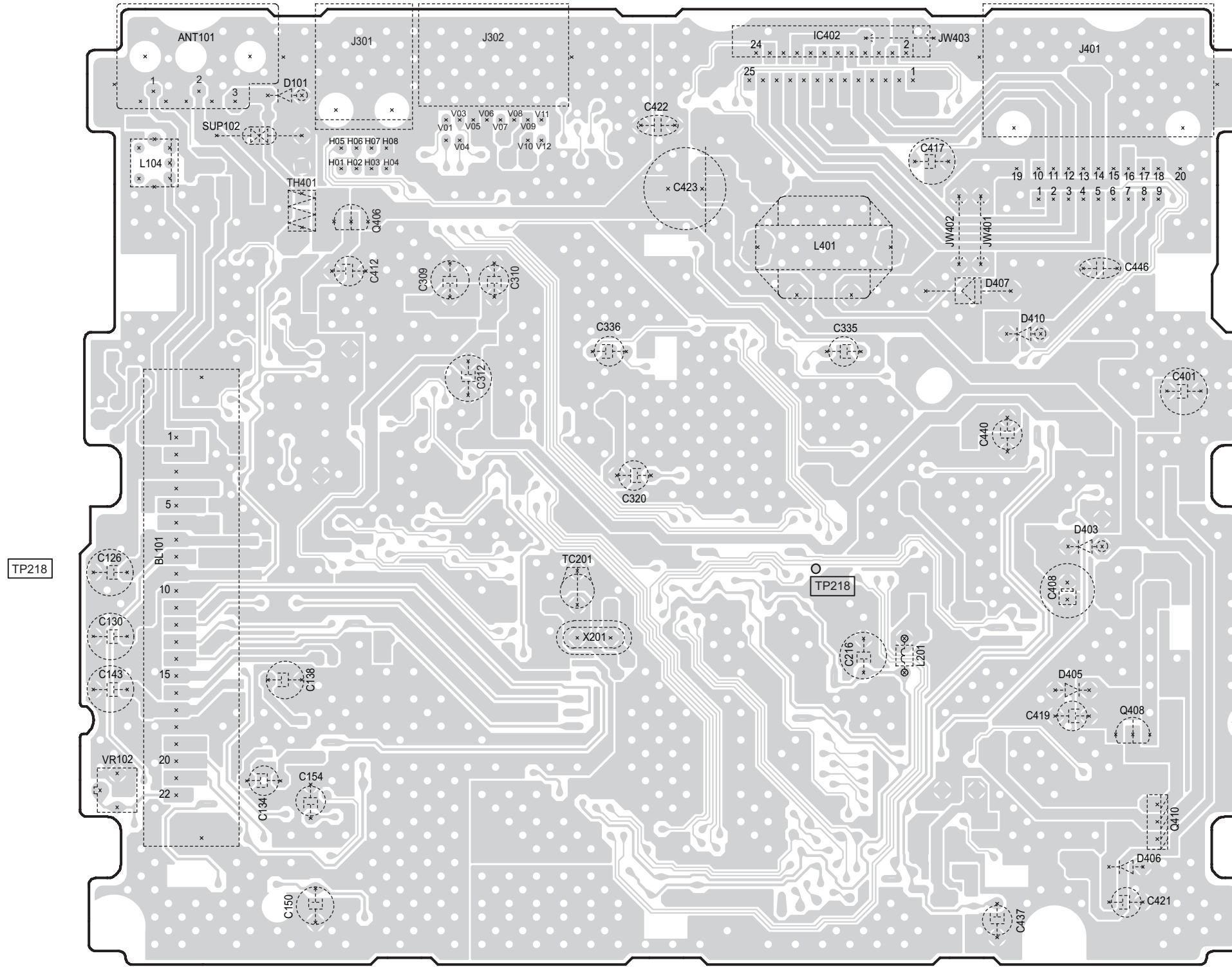
ANT Connector  
(GT10)

1	N.C.
2	MAIN ANT
3	ANT+B

**TEL Connector  
(TH08 HW)**

NDS Connector  
(A12 MW)

## Main Connector (TH18 HW)



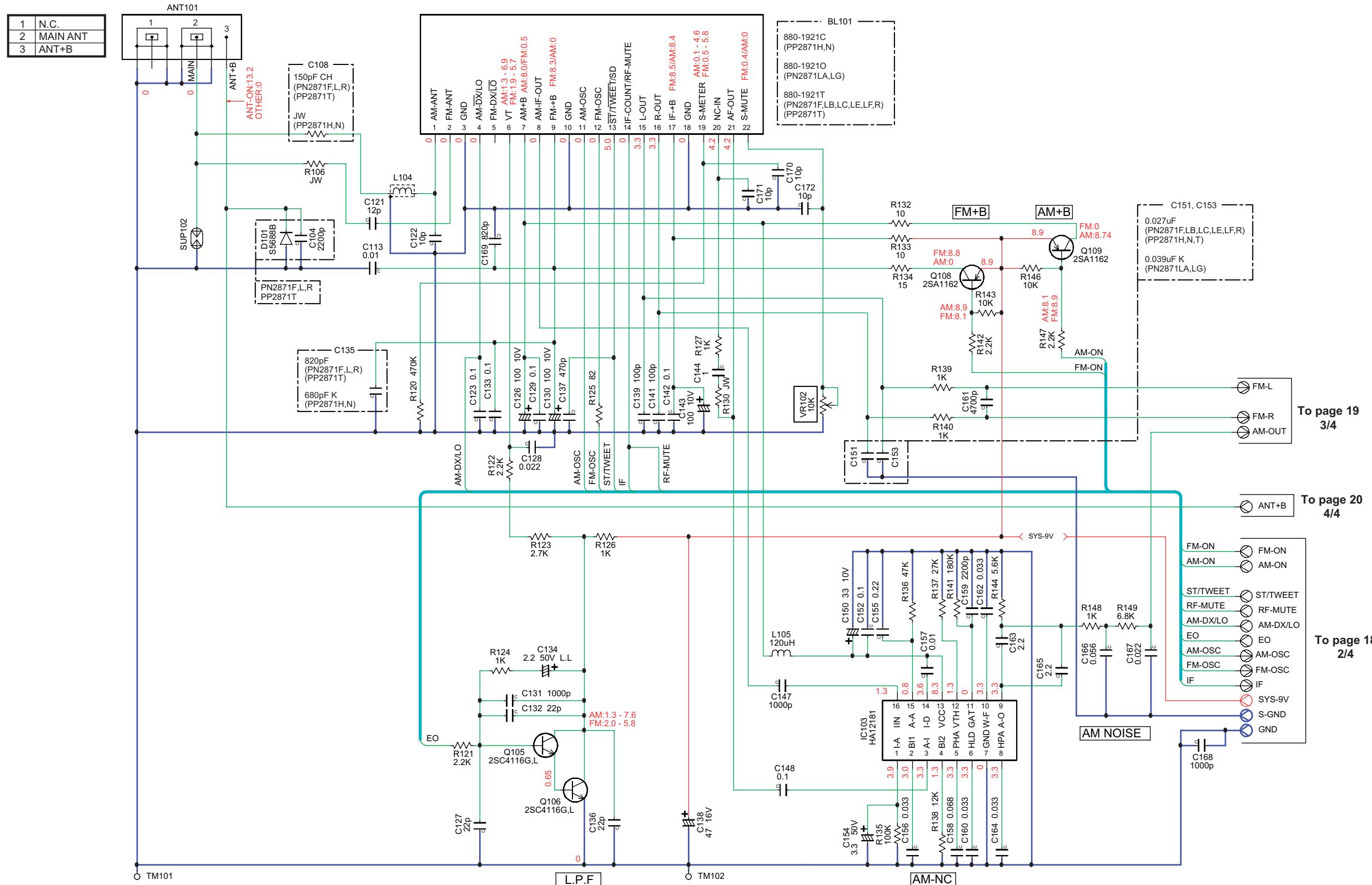
SOLDER SIDE

**Caution:**  
**SOLDER SIDE:** Parts on the solder side seen from the solder side are indicated.

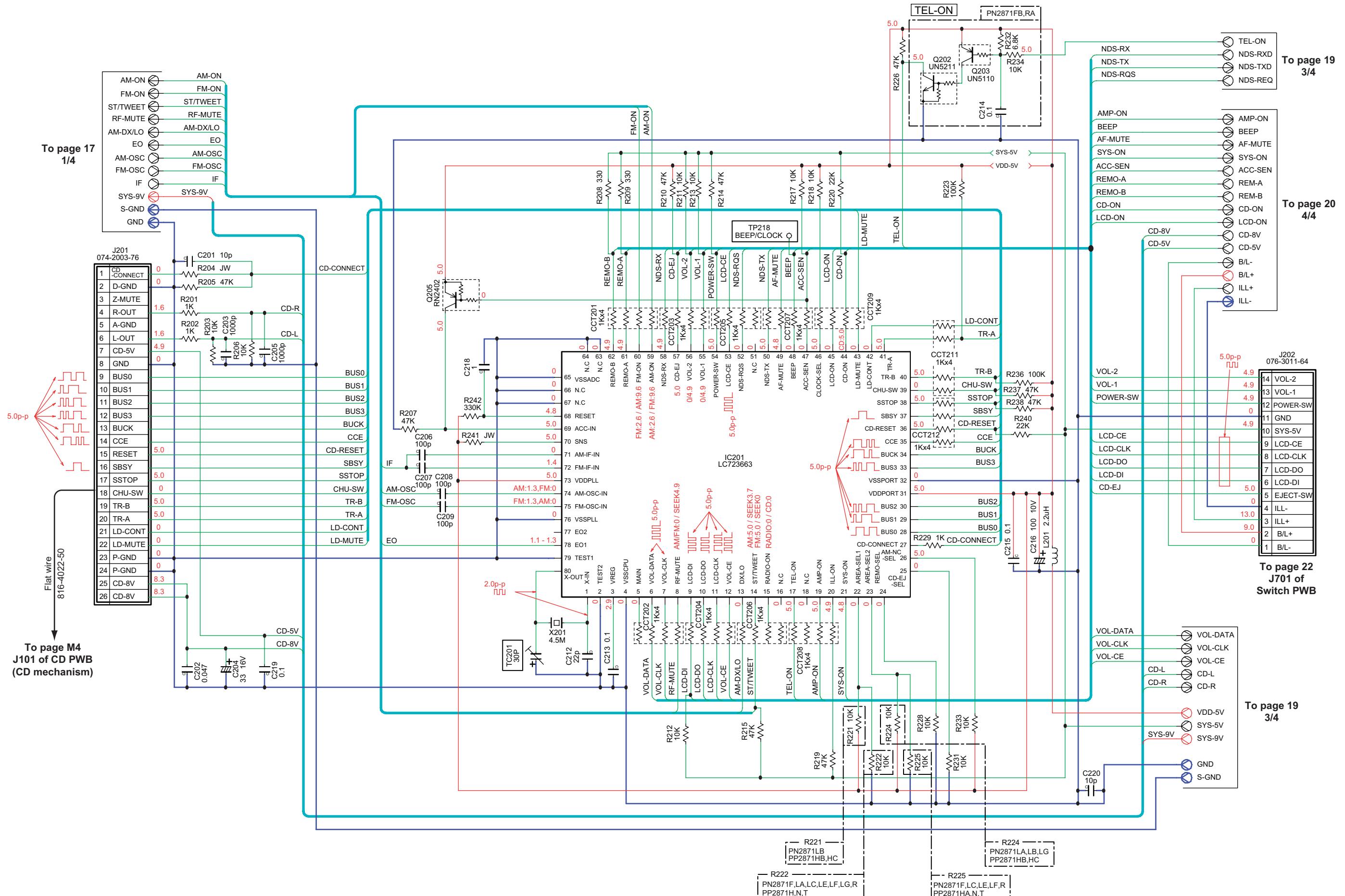
The parts of a dotted line express the parts on a component side.

# CIRCUIT DIAGRAM

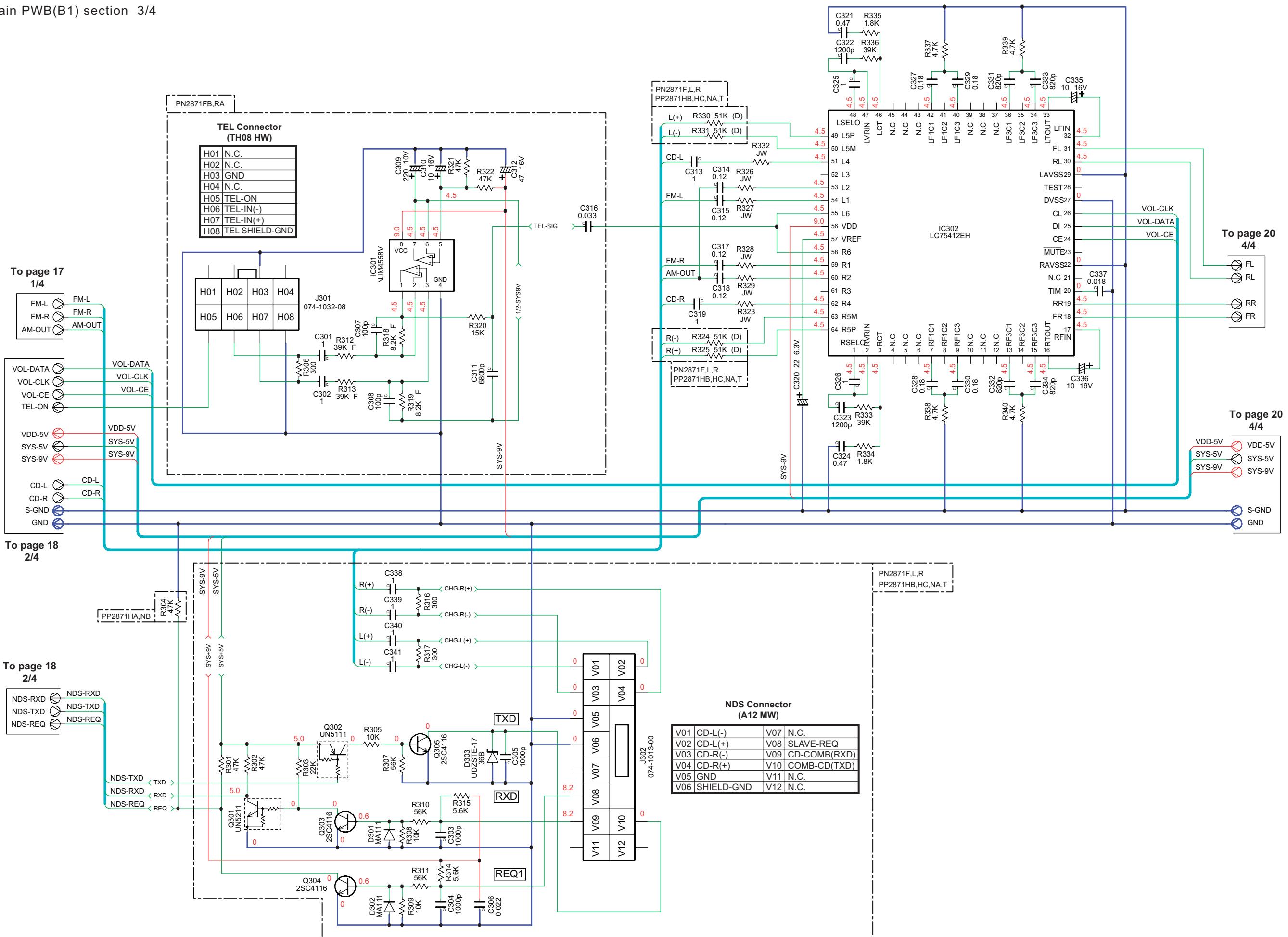
Main PWB(B1) section 1/4



Main PWB(B1) section 2/4



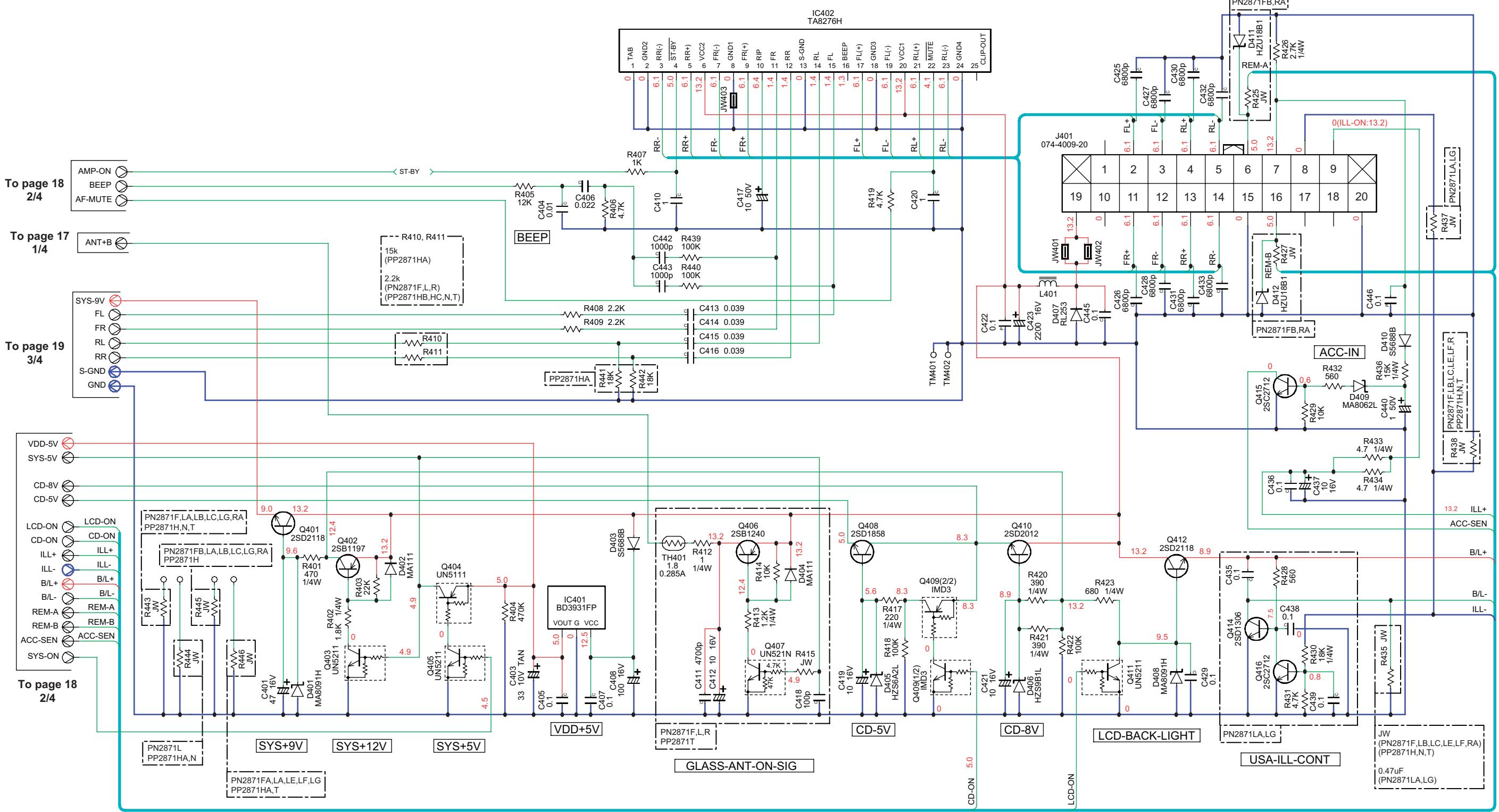
Main PWB(B1) section 3/4



Main PWB(B1) section 4/4

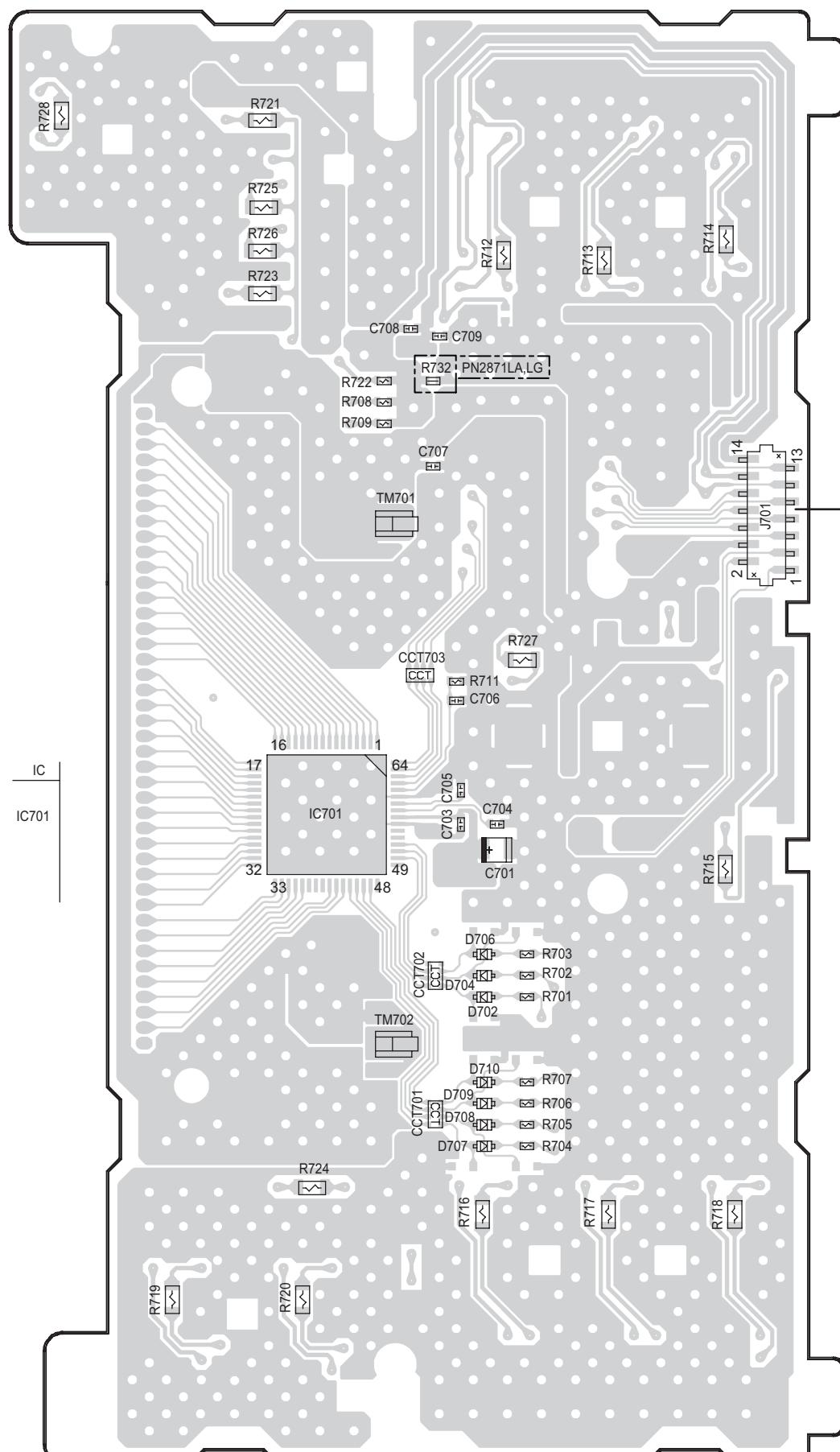
## Main Connector (TH18 HW)

1	N.C.	11	FRONT-R(+)
2	FRONT-L(+)	12	FRONT-R(-)
3	FRONT-L(-)	13	REAR-R(+)
4	REAR-L(+)	14	REAR-R(-)
5	REAR-L(-)	15	STRG-GND
6	STRG SW A (PN-2871F-B,R-A)	16	STRG SW B (PN-2871F-B,R-A)
7	ACC	17	N.C.
8	ILLUMI CONTROL (PN-2871L-A,L-G)	18	N.C.
9	ILLUMI(+)	19	BACK UP
10	N.C.	20	GND



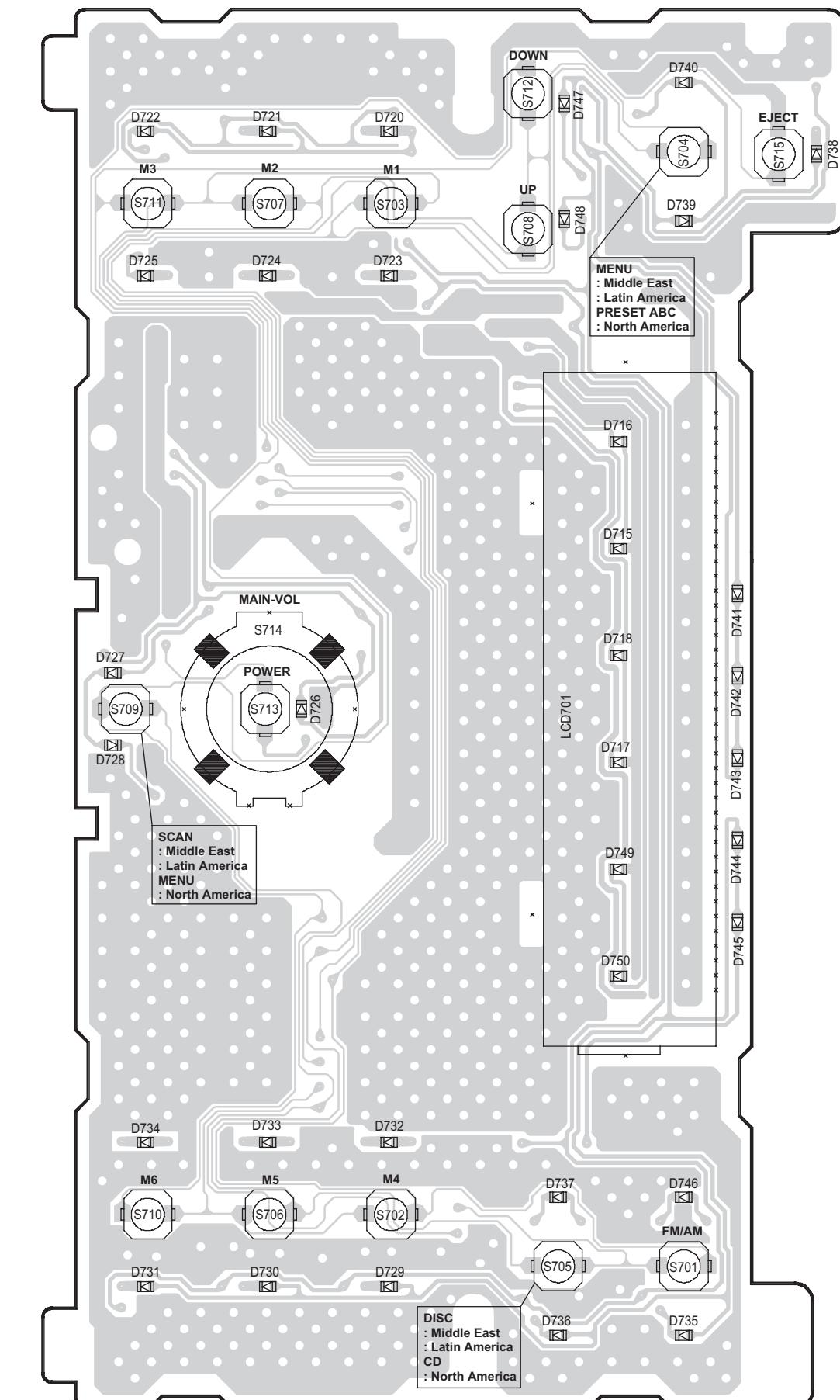
## PRINTED WIRING BOARD

## Switch PWB(B2) section



→ To page 15  
J202 of Main PWI

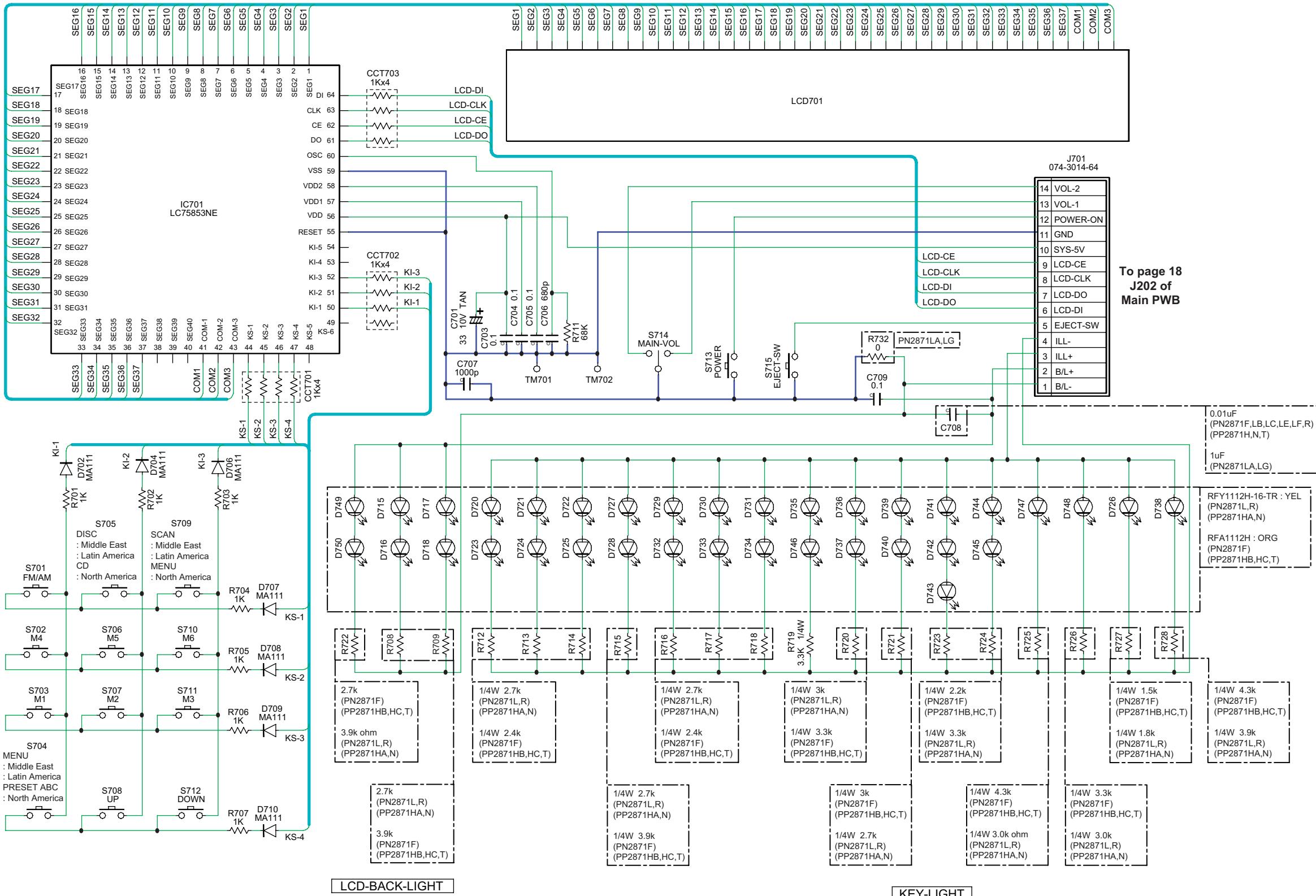
**Caution:**  
**COMPONENT SIDE:** Parts on the component side seen from the component side are indicated.  
**SOLDER SIDE:** Parts on the solder side seen from the solder side are indicated.



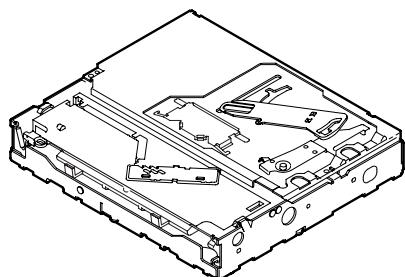
COMPONENT SIDE

## CIRCUIT DIAGRAM

### Switch PWB(B2) section



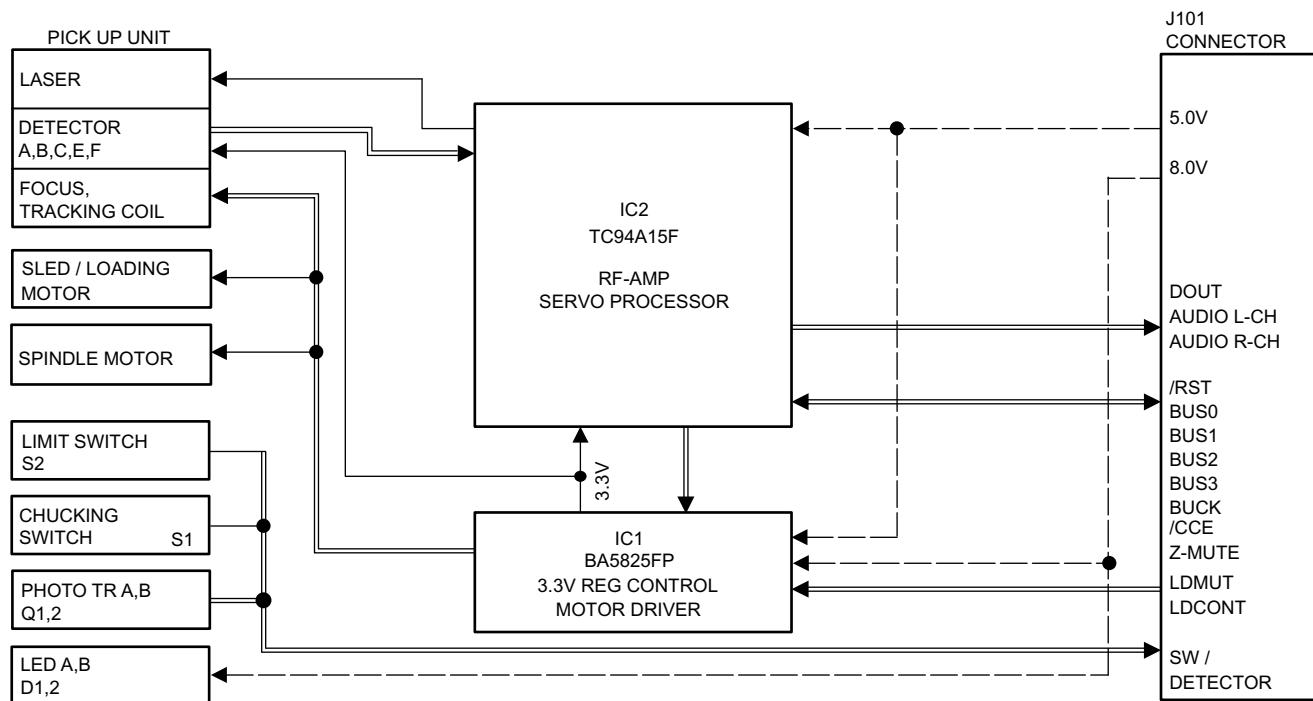
# Service Manual



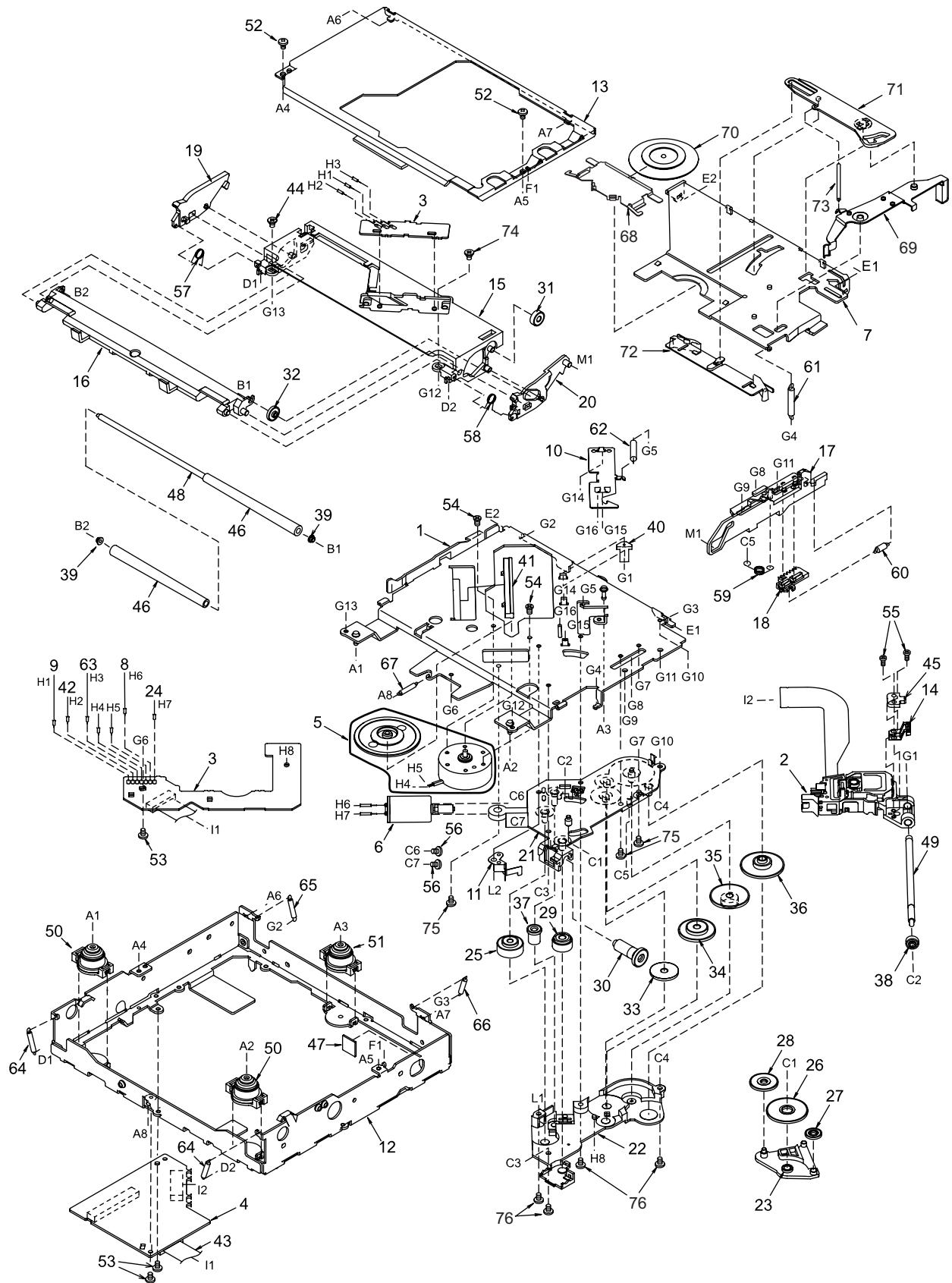
CD mechanism

Model **929-5001-81**

## BLOCK DIAGRAM



## EXPLODED VIEW / PARTS LIST



NO.	PART NO.	DESCRIPTION	Q'TY
1	966-1743-21	DRIVE-PLT-ASSY	1
2	969-0071-30	PICKUP-ASSY	1
3	-----	LED PWB	1
4	-----	CD PWB	1
5	SMA-182-100	MOTOR ASSY(SPINDLE)	1
6	SMA-183-100	MOTOR ASSY(SLED)	1
7	620-1596-23	CLAMPER LINK	1
8	803-4906-60	VINYL-COAT-WIRE(ORG)	1
9	816-2591-00	LEAD(YEL)	1
10	620-1753-20	ID-LOCK PLATE	1
11	620-1026-21	SPRING PLATE	1
12	620-1754-20	LOWER CHASSIS	1
13	620-1598-22	UPPER CHASSIS	1
14	966-1722-20	SH-RACK-ASSY	1
15	621-1742-20	UPPER GUIDE	1
16	621-0718-21	ROLLER GUIDE	1
17	621-1743-20	SHIFT LEVER	1
18	621-1744-20	RACK	1
19	621-1745-20	LOCK ARM L	1
20	621-1746-20	LOCK ARM R	1
21	621-1754-20	GEAR BASE	1
22	621-1747-20	GEAR COVER	1
23	621-1719-20	IDLE CASE	1
24	816-2590-00	LEAD(GRN)	1
25	621-0608-21	SECOND GEAR	1
26	621-0609-20	BASE GEAR	1
27	621-0610-20	IDLE GEAR A	1
28	621-0611-20	IDLE GEAR B	1
29	621-0612-21	ROLLER GEAR A	1
30	621-0719-20	ROLLER GEAR	1
31	621-0720-20	ROLLER GEAR C	1
32	621-0721-20	ROLLER GEAR D	1
33	621-1748-20	POWER GEAR A	1
34	621-1749-20	POWER GEAR B	1
35	621-1750-20	POWER GEAR C	1
36	621-1751-20	POWER GEAR D	1
37	621-0620-20	THREAD GEAR A	1
38	621-0621-20	THREAD GEAR B	1

NO.	PART NO.	DESCRIPTION	Q'TY
39	621-1726-20	ROLLER SLEEVE	2
40	621-0623-23	LS-HOLDER	1
41	621-0624-22	GUIDE RAIL	1
42	816-2593-00	LEAD(PUR)	1
43	816-2542-01	FLAT WIRE	1
44	716-3473-01	SCREW(M2x3)	1
45	621-1729-20	SH-BASE	1
46	621-0711-20	LOADING ROLLER	2
47	345-5476-20	CUSHION RUBBER	1
48	622-1571-21	ROLLER SHAFT	1
49	624-0020-00	LEAD SCREW	1
50	629-0086-20	DAMPER F	2
51	629-0087-20	DAMPER R	1
52	714-2003-8B	MACHIN SCREW(M2x3)	2
53	716-1507-01	SCREW(M2x3)	3
54	716-1733-01	SCREW(M1.7x2.3)	2
55	716-3469-01	SCREW(M3x4)	2
56	716-3551-00	SCREW(M1.4x2.5)	2
57	750-6797-20	ROLLER SPRING L	1
58	750-6798-20	ROLLER SPRING R	1
59	750-7865-20	SHIFT SPRING	1
60	750-7866-20	RACK SPRING	1
61	750-7867-20	CLAMPER SPRING	1
62	750-7868-20	ID-LOCK SPRING	1
63	816-2592-00	LEAD(BLU)	1
64	750-7870-20	DR-SPRING F	2
65	750-7871-20	DR-SPRING RA	1
66	750-7872-20	DR-SPRING RB	1
67	750-7873-20	DR-SPRING C	1
68	620-1023-23	CLAMPER PLATE	1
69	620-1752-20	SENSOR ARM	1
70	621-1753-20	CLAMPER RING	1
71	621-0728-20	STOPPER LINK	1
72	621-1752-20	DISC STOPPER	1
73	750-7869-20	SENSOR SPRING	1
74	781-1730-00	SCREW(M1.7x3)	1
75	780-2025-00	SCREW(M2x2.5)	3
76	716-1670-01	SCREW(M2x4)	4

# ELECTRICAL PARTS LIST

## CD PWB(BM1) section

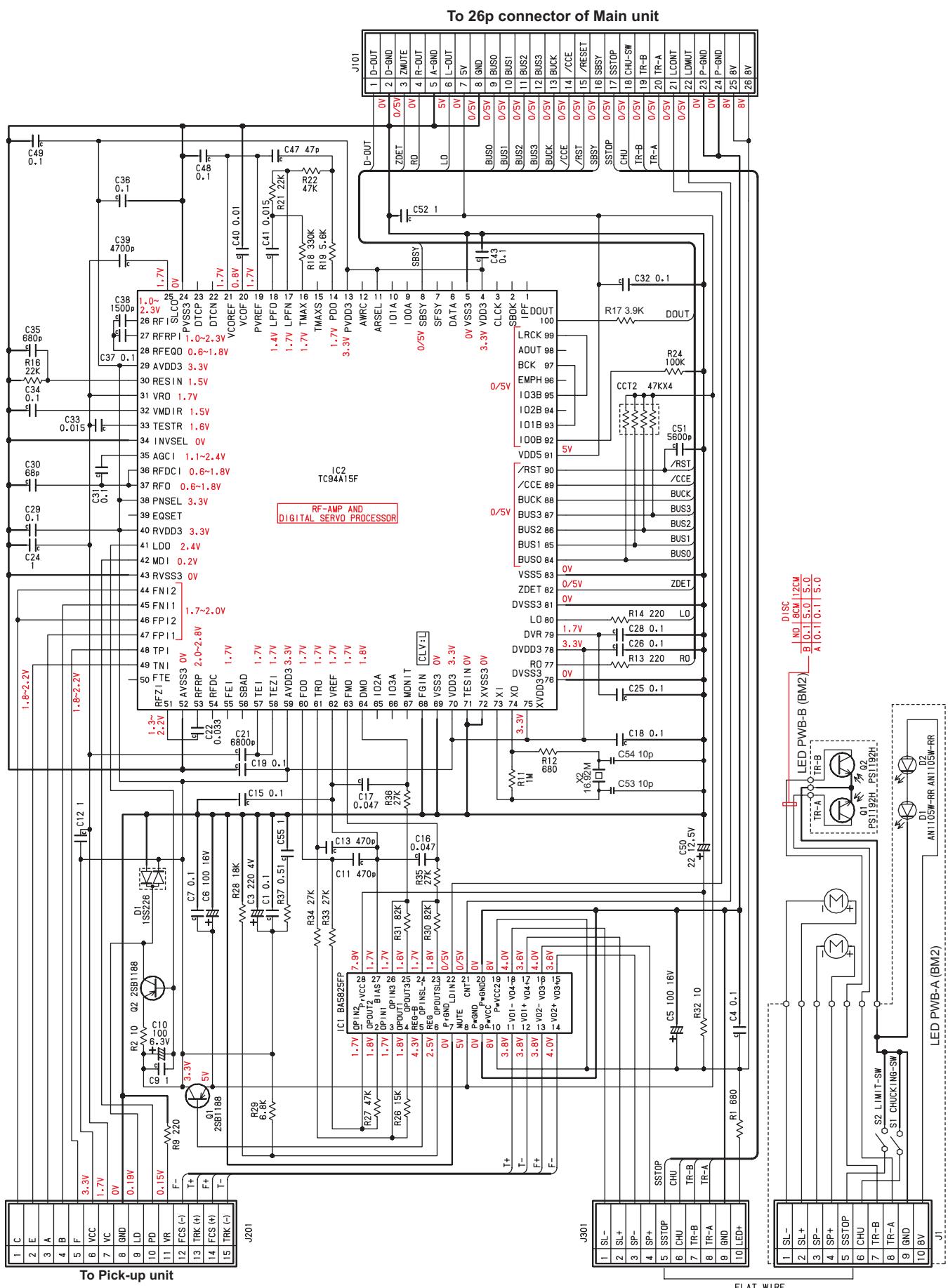
REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C1	168-1042-78	16V 0.1uF	C35	046-6812-58	680pF	R9	033-2211-15	1/10W 220 ohm
C3	163-2273-05	4V220uF	C36	168-1042-78	16V 0.1uF	R11	033-1051-15	1/10W 1M ohm
C4	168-1042-78	16V 0.1uF	C37	168-1042-78	16V 0.1uF	R12	119-2221-15	1/10W 2.2k ohm
C5	163-1073-35	16V100uF	C38	046-1522-58	1500pF	R13	033-2211-15	1/10W 220 ohm
C6	163-1073-35	16V100uF	C39	046-4722-58	4700pF	R14	033-2211-15	1/10W 220 ohm
C7	168-1042-78	16V 0.1uF	C40	046-1032-78	0.01uF	R16	033-2231-15	1/10W 22k ohm
C9	178-1052-78	1uF	C41	046-1532-78	0.015uF	R17	033-3921-15	1/10W 3.9k ohm
C10	042-0560-85	6.3V100uF	C43	168-1042-78	16V 0.1uF	R18	033-3341-15	1/10W 330k ohm
C11	046-4712-58	470pF	C47	045-4701-50	47pF	R19	033-5621-15	1/10W 5.6k ohm
C12	178-1052-78	1uF	C48	168-1042-78	16V 0.1uF	R21	033-2231-15	1/10W 22k ohm
C13	046-4712-58	470pF	C49	168-1042-78	16V 0.1uF	R22	033-4731-15	1/10W 47k ohm
C15	168-1042-78	16V 0.1uF	C50	042-0666-00	12.5V 22uF	R24	033-1041-15	1/10W 100k ohm
C16	168-4732-78	0.047uF	C51	046-5622-58	5600pF	R26	033-1531-15	1/10W 15k ohm
C17	168-4732-78	0.047uF	C52	178-1052-78	1uF	R27	033-4731-15	1/10W 47k ohm
C18	168-1042-78	16V 0.1uF	C53	045-1007-50	10pF	R28	033-1831-15	1/10W 18k ohm
C19	168-1042-78	16V 0.1uF	C54	045-1007-50	10pF	R29	033-6821-15	1/10W 6.8k ohm
C21	046-6822-58	6800pF	C55	178-1052-78	1uF	R30	033-8231-15	1/10W 82k ohm
C22	046-3332-78	0.033uF	CCT2	050-0140-63	1/32W 47k ohm x4J	R31	033-8231-15	1/10W 82k ohm
C24	178-1052-78	1uF	D1	001-0367-91	ISS226	R32	119-1001-15	1/10W 10 ohm
C25	168-1042-78	16V 0.1uF	IC1	051-6071-08	BA5825FP-E2	R33	033-2731-15	1/10W 27k ohm
C26	168-1042-78	16V 0.1uF	IC2	051-6399-00	TC94A15F	R34	033-2731-15	1/10W 27k ohm
C28	168-1042-78	16V 0.1uF	J101	074-1228-76	26P	R35	033-2731-15	1/10W 27k ohm
C29	168-1042-78	16V 0.1uF	J201	074-1138-65	15P	R36	033-2731-15	1/10W 27k ohm
C30	045-6801-50	68pF	J301	074-1138-60	10P	R37	032-0162-50	1/10W 0.51 ohm
C31	168-1042-78	16V 0.1uF	Q1	131-1188-50	2SB1188PQR	TM1	073-0768-00	TERMINAL
C32	168-1042-78	16V 0.1uF	Q2	131-1188-50	2SB1188PQR	X2	061-3534-90	16.92MHz
C33	046-1532-78	0.015uF	R1	117-6811-15	1/8W 680 ohm	PWB	039-2846-20	PWB(WITHOUT COMPONENT)
C34	168-1042-78	16V 0.1uF	R2	117-1001-15	1/8W 10 ohm			

## LED PWB(BM2) section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
D1	001-7058-90	AN1105W-RR	Q1	060-4015-91	PS1192HB-33-TR	S2	013-7413-50	LIMIT
D2	001-7058-90	AN1105W-RR	Q2	060-4015-91	PS1192HB-33-TR	PWB	039-1944-21	PWB(WITHOUT COMPONENT)
J1	074-1138-60	10P	S1	013-7414-50	CHUCKING			

# CIRCUIT DIAGRAM

CD PWB(BM1) section  
LED PWB(BM2) section



# PRINTED WIRING BOARD

CD PWB(BM1) section  
LED PWB(BM2) section

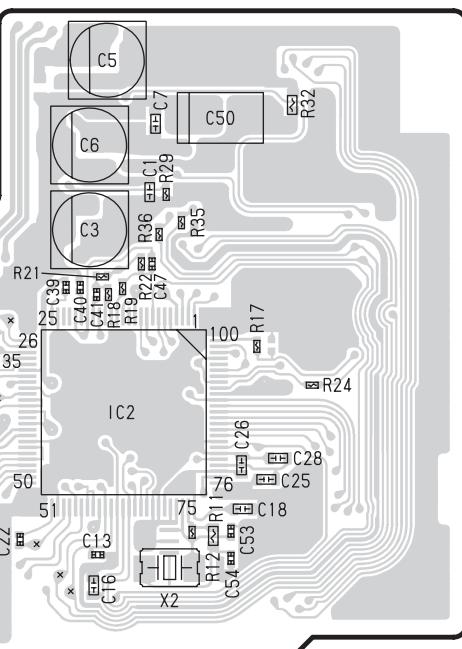
**Caution:**

COMPONENT SIDE: Parts on the component side seen from the component side are indicated.

SOLDER SIDE: Parts on the solder side seen from the solder side are indicated.

**CD PWB (BM1)**

COMPONENT SIDE



Q | IC

IC2

Q2

To 26p connector of Main unit

Q1

IC1

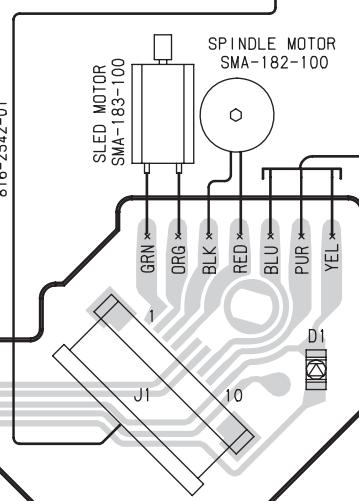
Pick up unit

Q1

IC1

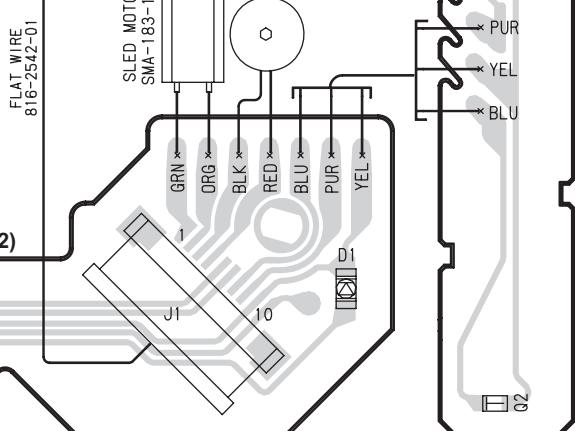
**CD PWB (BM1)**

SOLDER SIDE



**LED PWB-B (BM2)**

SOLDER SIDE



Q1

IC1

Q2

Q2

S1 CHUCKING SWITCH

D2